

Pei Yu

List of Publications by Year in descending order

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109
papers

2,251
citations

236612

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110
docs citations

110
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	A hierarchical parametric analysis on Hopf bifurcation of an epidemic model. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2023, 16, 708-724.	0.6	1
2	Isolated periodic wave solutions arising from Hopf and Poincaré bifurcations in a class of single species model. <i>Journal of Differential Equations</i> , 2022, 311, 59-80.	1.1	1
3	Global Dynamics of a Susceptible-Infectious-Recovered Epidemic Model with a Generalized Nonmonotone Incidence Rate. <i>Journal of Dynamics and Differential Equations</i> , 2021, 33, 1625-1661.	1.0	20
4	Revealing the role of the effector-regulatory t cell loop on autoimmune disease symptoms via nonlinear analysis. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 93, 105529.	1.7	4
5	Eighteen limit cycles around two symmetric foci in a cubic planar switching polynomial system. <i>Journal of Differential Equations</i> , 2021, 275, 939-959.	1.1	11
6	The monotonicity of ratios of some Abelian integrals. <i>Bulletin Des Sciences Mathematiques</i> , 2021, 166, 102934.	0.5	2
7	On the Melnikov functions and limit cycles near a double homoclinic loop with a nilpotent saddle of order $m \neq 1$. <i>Journal of Differential Equations</i> , 2021, 291, 27-56.	1.1	4
8	Complex integrability and linearizability of cubic Z_2 -equivariant systems with two $1:q$ resonant singular points. <i>Journal of Differential Equations</i> , 2021, 300, 786-813.	1.1	10
9	Analysis and simulation of periodic and solitary waves in nonlinear dispersive-dissipative solids. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 102, 105921.	1.7	4
10	Center condition and bifurcation of limit cycles for quadratic switching systems with a nilpotent equilibrium point. <i>Journal of Differential Equations</i> , 2021, 303, 326-368.	1.1	7
11	Complex isochronous centers and linearization transformations for cubic Z_2 -equivariant planar systems. <i>Journal of Differential Equations</i> , 2020, 268, 3819-3847.	1.1	19
12	Identifying weak focus and center in a convection model. <i>Applied Mathematics Letters</i> , 2020, 100, 106019.	1.5	0
13	A note on the paper "Center and isochronous center conditions for switching systems associated with elementary singular points". <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 90, 105405.	1.7	3
14	Integrability and linearizability of cubic Z_2 systems with non-resonant singular points. <i>Journal of Differential Equations</i> , 2020, 269, 9026-9049.	1.1	15
15	Tristable Phenomenon in a Predator-Prey System Arising from Multiple Limit Cycles Bifurcation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050129.	0.7	1
16	Dynamical analysis on traveling wave of a reaction-diffusion model. <i>Applied Mathematics Letters</i> , 2020, 109, 106550.	1.5	5
17	Cyclicity of periodic annulus and Hopf cyclicity in perturbing a hyper-elliptic Hamiltonian system with a degenerate heteroclinic loop. <i>Journal of Differential Equations</i> , 2020, 269, 9224-9253.	1.1	6
18	Modeling and analysis of recurrent autoimmune disease. <i>Nonlinear Analysis: Real World Applications</i> , 2020, 54, 103109.	0.9	4

#	ARTICLE	IF	CITATIONS
19	Analysis of Zero-Hopf Bifurcation in Two Rössler Systems Using Normal Form Theory. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030050.	0.7	4
20	Visualization of Four Limit Cycles in Near-Integrable Quadratic Polynomial Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050236.	0.7	0
21	Parameter identification on Abelian integrals to achieve Chebyshev property. Discrete and Continuous Dynamical Systems - Series B, 2020, .	0.5	0
22	Limit cycle bifurcations near a double homoclinic loop with a nilpotent saddle of order m. Journal of Differential Equations, 2019, 266, 455-492.	1.1	11
23	Exact bound on the number of zeros of Abelian integrals for two hyper-elliptic Hamiltonian systems of degree 4. Journal of Differential Equations, 2019, 267, 7369-7384.	1.1	18
24	Bifurcation of Multiple Limit Cycles in an Epidemic Model on Adaptive Networks. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950096.	0.7	4
25	Bifurcation analysis on a class of three-dimensional quadratic systems with twelve limit cycles. Applied Mathematics and Computation, 2019, 363, 124577.	1.4	7
26	Bifurcation Analysis of a Mosquito Population Model with a Saturated Release Rate of Sterile Mosquitoes. SIAM Journal on Applied Dynamical Systems, 2019, 18, 939-972.	0.7	21
27	Bifurcation analysis on the effect of store-operated and receptor-operated calcium channels for calcium oscillations in astrocytes. Nonlinear Dynamics, 2019, 97, 733-748.	2.7	4
28	Complex Dynamics in a Unified SIR and HIV Disease Model: A Bifurcation Theory Approach. Journal of Nonlinear Science, 2019, 29, 2447-2500.	1.0	13
29	Bifurcation analysis of an SIRS epidemic model with a generalized nonmonotone and saturated incidence rate. Journal of Differential Equations, 2019, 267, 1859-1898.	1.1	83
30	Complex Dynamics Due to Multiple Limit Cycle Bifurcations in a Tritrophic Food Chain Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950193.	0.7	1
31	Bifurcation analysis on a class of Z_2 -equivariant cubic switching systems showing eighteen limit cycles. Journal of Differential Equations, 2019, 266, 1221-1244.	1.1	25
32	Bifurcation of small limit cycles in cubic integrable systems using higher-order analysis. Journal of Differential Equations, 2018, 264, 5950-5976.	1.1	15
33	Centers and isochronous centers of a class of quasi-analytic switching systems. Science China Mathematics, 2018, 61, 1201-1218.	0.8	10
34	Simple algebraic necessary and sufficient conditions for Lyapunov stability of a Chen system and their applications. Transactions of the Institute of Measurement and Control, 2018, 40, 2200-2210.	1.1	3
35	Bifurcation of limit cycles at infinity in piecewise polynomial systems. Nonlinear Analysis: Real World Applications, 2018, 41, 82-106.	0.9	57
36	Twelve Limit Cycles in 3D Quadratic Vector Fields with Z_3 Symmetry. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850139.	0.7	9

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37	An Improvement on the Number of Limit Cycles Bifurcating from a Nondegenerate Center of Homogeneous Polynomial Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1850078.	0.7	13
38	Bi-center problem and bifurcation of limit cycles from nilpotent singular points in Z_2 -equivariant cubic vector fields. <i>Journal of Differential Equations</i> , 2018, 265, 4965-4992.	1.1	36
39	On the independent perturbation parameters and the number of limit cycles of a type of Liénard system. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 464, 679-692.	0.5	3
40	Multistable Phenomena Involving Equilibria and Periodic Motions in Predator-Prey Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017, 27, 1750043.	0.7	10
41	Bifurcation of limit cycles in a cubic-order planar system around a nilpotent critical point. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 453, 645-667.	0.5	12
42	The Impact of Prophage on the Equilibria and Stability of Phage and Host. <i>Journal of Nonlinear Science</i> , 2017, 27, 817-846.	1.0	4
43	Bifurcation of limit cycles at infinity in a class of switching systems. <i>Nonlinear Dynamics</i> , 2017, 88, 403-414.	2.7	6
44	Nine limit cycles around a singular point by perturbing a cubic Hamiltonian system with a nilpotent center. <i>Applied Mathematics and Computation</i> , 2017, 298, 141-152.	1.4	4
45	Global Existence and Uniqueness of Periodic Waves in a Population Model with Density-Dependent Migrations and Allee Effect. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017, 27, 1750192.	0.7	16
46	Backward bifurcations, turning points and rich dynamics in simple disease models. <i>Journal of Mathematical Biology</i> , 2016, 73, 947-976.	0.8	20
47	Complex dynamics in biological systems arising from multiple limit cycle bifurcation. <i>Journal of Biological Dynamics</i> , 2016, 10, 263-285.	0.8	17
48	Hopf and Generalized Hopf Bifurcations in a Recurrent Autoimmune Disease Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650079.	0.7	6
49	Dynamical analysis and simulation of a 2-dimensional disease model with convex incidence. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 37, 163-192.	1.7	15
50	Four small limit cycles around a Hopf singular point in 3-dimensional competitive Lotka-Volterra systems. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 436, 521-555.	0.5	21
51	Bifurcation of ten small-amplitude limit cycles by perturbing a quadratic Hamiltonian system with cubic polynomials. <i>Journal of Differential Equations</i> , 2016, 260, 971-990.	1.1	15
52	Ten limit cycles around a center-type singular point in a 3-d quadratic system with quadratic perturbation. <i>Applied Mathematics Letters</i> , 2015, 44, 17-20.	1.5	20
53	Center conditions in a switching Bautin system. <i>Journal of Differential Equations</i> , 2015, 259, 1203-1226.	1.1	33
54	Center and isochronous center conditions for switching systems associated with elementary singular points. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 28, 81-97.	1.7	20

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55	Study of hidden attractors, multiple limit cycles from Hopf bifurcation and boundedness of motion in the generalized hyperchaotic Rabinovich system. <i>Nonlinear Dynamics</i> , 2015, 82, 131-141.	2.7	120
56	Equivalence of the MTS Method and CMR Method for Differential Equations Associated with Semisimple Singularity. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014, 24, 1450003.	0.7	10
57	Periodic Solutions and Asymptotic Analysis of Ordinary Differential Equations. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-1.	0.3	0
58	Dynamics of an HIV-1 infection model with cell mediated immunity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 3827-3844.	1.7	8
59	Viral Blips May Not Need a Trigger: How Transient Viremia Can Arise in Deterministic In-Host Models. <i>SIAM Review</i> , 2014, 56, 127-155.	4.2	34
60	Seven Limit Cycles Around a Focus Point in a Simple Three-Dimensional Quadratic Vector Field. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014, 24, 1450083.	0.7	10
61	Twelve limit cycles around a singular point in a planar cubic-degree polynomial system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 2690-2705.	1.7	36
62	An explicit recursive formula for computing the normal forms associated with semisimple cases. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 2294-2308.	1.7	20
63	Modeling and Analysis of Recurrent Autoimmune Disease. <i>SIAM Journal on Applied Mathematics</i> , 2014, 74, 1998-2025.	0.8	26
64	AN EXPLICIT RECURSIVE FORMULA FOR COMPUTING THE NORMAL FORM AND CENTER MANIFOLD OF GENERAL n-DIMENSIONAL DIFFERENTIAL SYSTEMS ASSOCIATED WITH HOPF BIFURCATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350104.	0.7	28
65	Small-amplitude limit cycles of polynomial Liénard systems. <i>Science China Mathematics</i> , 2013, 56, 1543-1556.	0.8	24
66	Double Hopf bifurcation in a container crane model with delayed position feedback. <i>Applied Mathematics and Computation</i> , 2013, 219, 9270-9281.	1.4	11
67	Bifurcation analysis in a recurrent neural network model with delays. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 351-372.	1.7	10
68	Bifurcation of limit cycles in 3rd-order Hamiltonian planar vector fields with 3rd-order perturbations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 978-988.	1.7	7
69	SYNCHRONIZATION AND STABILIZATION OF MULTI-SCROLL INTEGER AND FRACTIONAL ORDER CHAOTIC ATTRACTORS GENERATED USING TRIGONOMETRIC FUNCTIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350145.	0.7	17
70	Conditions for Transient Viremia in Deterministic in-Host Models: Viral Blips Need No Exogenous Trigger. <i>SIAM Journal on Applied Mathematics</i> , 2013, 73, 853-881.	0.8	19
71	DOUBLE HOPF BIFURCATION IN DELAYED VAN DER POL-DUFFING EQUATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350014.	0.7	17
72	AN APPLICATION OF REGULAR CHAIN THEORY TO THE STUDY OF LIMIT CYCLES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350154.	0.7	18

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73	FOUR LIMIT CYCLES FROM PERTURBING QUADRATIC INTEGRABLE SYSTEMS BY QUADRATIC POLYNOMIALS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250254.	0.7	25
74	Hopf-zero bifurcation in a generalized Gopalsamy neural network model. Nonlinear Dynamics, 2012, 70, 1037-1050.	2.7	17
75	Spectral sequences and parametric normal forms. Journal of Differential Equations, 2012, 252, 1003-1031.	1.1	36
76	BIFURCATION ANALYSIS ON AN HIV-1 MODEL WITH CONSTANT INJECTION OF RECOMBINANT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250062.	0.7	8
77	Bifurcation analysis in a model of cytotoxic T-lymphocyte response to viral infections. Nonlinear Analysis: Real World Applications, 2012, 13, 64-77.	0.9	26
78	Normal Forms, Melnikov Functions and Bifurcations of Limit Cycles. Applied Mathematical Sciences (Switzerland), 2012, , .	0.4	86
79	Comparison of Methods for Computing Focus Values. Applied Mathematical Sciences (Switzerland), 2012, , 59-79.	0.4	0
80	Bifurcation of Limit Cycles in Cubic Integrable Z_2 -Equivariant Planar Vector Fields. Qualitative Theory of Dynamical Systems, 2010, 9, 221-233.	0.8	2
81	EXISTENCE CONDITIONS OF THIRTEEN LIMIT CYCLES IN A CUBIC SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2569-2577.	0.7	20
82	FORMAL DECOMPOSITION METHOD AND PARAMETRIC NORMAL FORMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3487-3515.	0.7	14
83	HOPF BIFURCATIONS FOR NEAR-HAMILTONIAN SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 4117-4130.	0.7	80
84	Dynamics of an HIV-1 therapy model of fighting a virus with another virus. Journal of Biological Dynamics, 2009, 3, 387-409.	0.8	26
85	Computation of focus values with applications. Nonlinear Dynamics, 2008, 51, 409-427.	2.7	27
86	Globally exponentially attractive sets of the family of Lorenz systems. Science in China Series F: Information Sciences, 2008, 51, 283-292.	1.1	43
87	Analytical Solutions for a Family of Gaussian Impinging Jets. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	1.1	17
88	GLOBALLY EXPONENTIAL HYPERCHAOS (LAG) SYNCHRONIZATION IN A FAMILY OF MODIFIED HYPERCHAOTIC $R\ddot{A}$ -SSLER SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1759-1774.	0.7	15
89	Robust absolute stability of Lurie interval control systems. International Journal of Robust and Nonlinear Control, 2007, 17, 1669-1689.	2.1	7
90	The simplest parametrized normal forms of Hopf and generalized Hopf bifurcations. Nonlinear Dynamics, 2007, 50, 297-313.	2.7	6

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91	Existence of small limit cycles in \mathbb{R}^3 . International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 497-522.	0.5	11
92	COMPETITIVE MODES AND THEIR APPLICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 497-522.	0.7	18
93	STUDY OF GLOBALLY EXPONENTIAL SYNCHRONIZATION FOR THE FAMILY OF R \ddot{A} -SSLER SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2395-2406.	0.7	24
94	Chapter 1 Bifurcation, Limit Cycle and Chaos of Nonlinear Dynamical Systems. Edited Series on Advances in Nonlinear Science and Complexity, 2006, 1, 1-125.	0.3	14
95	BIFURCATION OF LIMIT CYCLES IN Z_{10} -EQUIVARIANT VECTOR FIELDS OF DEGREE 9. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2309-2324.	0.7	23
96	DOUBLE-HOPF BIFURCATION IN AN OSCILLATOR WITH EXTERNAL FORCING AND TIME-DELAYED FEEDBACK CONTROL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 3523-3537.	0.7	9
97	GLOBALLY ATTRACTIVE AND POSITIVE INVARIANT SET OF THE LORENZ SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 757-764.	0.7	40
98	NEW ESTIMATIONS FOR GLOBALLY ATTRACTIVE AND POSITIVE INVARIANT SET OF THE FAMILY OF THE LORENZ SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 3383-3390.	0.7	33
99	CHAOTIFICATION OF DISCRETE DYNAMICAL SYSTEMS IN BANACH SPACES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2615-2636.	0.7	48
100	ANALYSIS ON THE GLOBALLY EXPONENT SYNCHRONIZATION OF CHUA'S CIRCUIT USING ABSOLUTE STABILITY THEORY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3867-3881.	0.7	12
101	Aeroelasticity of Time-Delayed Feedback Control of Two-Dimensional Supersonic Lifting Surfaces. Journal of Guidance, Control, and Dynamics, 2004, 27, 795-803.	1.6	40
102	DELAY-INDUCED BIFURCATIONS IN A NONAUTONOMOUS SYSTEM WITH DELAYED VELOCITY FEEDBACKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 2777-2798.	0.7	59
103	HOPF BIFURCATION CONTROL USING NONLINEAR FEEDBACK WITH POLYNOMIAL FUNCTIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1683-1704.	0.7	106
104	A matching pursuit technique for computing the simplest normal forms of vector fields. Journal of Symbolic Computation, 2003, 35, 591-615.	0.5	21
105	Analysis on Double Hopf Bifurcation Using Computer Algebra with the Aid of Multiple Scales. Nonlinear Dynamics, 2002, 27, 19-53.	2.7	71
106	Vibration analysis on a thin plate with the aid of computation of normal forms. International Journal of Non-Linear Mechanics, 2001, 36, 597-627.	1.4	62
107	Global Dynamics of a Parametrically and Externally Excited Thin Plate. Nonlinear Dynamics, 2001, 24, 245-268.	2.7	60
108	Symbolic computation of normal forms for semi-simple cases. Journal of Computational and Applied Mathematics, 1999, 102, 195-220.	1.1	36

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109	Double Hopf Bifurcations and Chaos of a Nonlinear Vibration System. <i>Nonlinear Dynamics</i> , 1999, 19, 313-332.	2.7	21