Enrique Ponce

List of Publications by Year in descending order

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201385 253896 2,237 101 27 43 h-index citations g-index papers 105 105 105 564 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	On normal forms and return maps for pseudo-focus points. Journal of Mathematical Analysis and Applications, 2022, 507, 125774.	0.5	1
2	Bifurcation set for a disregarded Bogdanov-Takens unfolding: Application to 3D cubic memristor oscillators. Nonlinear Dynamics, 2021, 104, 1657-1675.	2.7	2
3	Limit cycles from a monodromic infinity in planar piecewise linear systems. Journal of Mathematical Analysis and Applications, 2021, 496, 124818.	0.5	4
4	Dynamic analysis of self-oscillating H-bridge inverters with state feedback. Journal of the Franklin Institute, 2020, 357, 494-521.	1.9	3
5	Bifurcations from a center at infinity in 3D piecewise linear systems with two zones. Physica D: Nonlinear Phenomena, 2020, 402, 132280.	1.3	4
6	Periodic Orbit Bifurcations in Planar Hysteretic Systems without Equilibria. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030016.	0.7	0
7	Hopf bifurcation at infinity in 3D symmetric piecewise linear systems. Application to a Bonhoeffer–van der Pol oscillator. Nonlinear Analysis: Real World Applications, 2020, 54, 103112.	0.9	10
8	Bifurcation Analysis in a Self-Oscillating Series Resonant Converter. , 2020, , 15-28.		0
9	A direct transition to chaos in hysteretic systems with focus dynamics. Chaos, 2019, 29, 103111.	1.0	1
10	Periodic orbits in hysteretic systems with real eigenvalues. Nonlinear Dynamics, 2019, 97, 2557-2578.	2.7	2
11	Delay effects on the limit cycling behavior in resonant inverters with state feedback. Nonlinear Theory and Its Applications IEICE, 2019, 10, 337-356.	0.4	2
12	On the Teixeira singularity bifurcation in a DC–DC power electronic converter. Nonlinear Dynamics, 2019, 96, 1243-1266.	2.7	12
13	Suppression of Undesired Attractors in a Self-Oscillating H-Bridge Parallel Resonant Converters Under Zero Current Switching Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 692-696.	2.2	7
14	Two Limit Cycles in Liénard Piecewise Linear Differential Systems. Journal of Nonlinear Science, 2019, 29, 1499-1522.	1.0	14
15	Nonlinear Dynamic Modeling and Analysis of Self-Oscillating H-Bridge Parallel Resonant Converter Under Zero Current Switching Control: Unveiling Coexistence of Attractors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1657-1667.	3.5	8
16	The boundary focus–saddle bifurcation in planar piecewise linear systems. Application to the analysis of memristor oscillators. Nonlinear Analysis: Real World Applications, 2018, 43, 495-514.	0.9	19
17	Revisiting the Teixeira Singularity Bifurcation Analysis: Application to the Control of Power Converters. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850106.	0.7	16
18	A multiple focus-center-cycle bifurcation in 4D discontinuous piecewise linear memristor oscillators. Nonlinear Dynamics, 2018, 94, 3011-3028.	2.7	7

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19	Limit cycle bifurcations in resonant LC power inverters under zero current switching strategy. Nonlinear Dynamics, 2018, 91, 1145-1161.	2.7	12
20	Limit Cycle Bifurcation from a Persistent Center at Infinity in 3D Piecewise Linear Systems with Two Zones. Trends in Mathematics, 2017, , 55-58.	0.1	1
21	On Discontinuous Piecewise Linear Models for Memristor Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730022.	0.7	15
22	Analysis of coexisting solutions and control of their bifurcations in a parallel LC resonant inverter. , $2017,$		2
23	Sliding bifurcations in resonant inverters. , 2017, , .		1
24	Unravelling the dynamical richness of 3D canonical memristorÂoscillators. Microelectronic Engineering, 2017, 182, 15-24.	1.1	9
25	Bifurcation Analysis of Hysteretic Systems with Saddle Dynamics. Applied Mathematics and Nonlinear Sciences, 2017, 2, 449-464.	0.9	18
26	Bifurcation Analysis of a DC–DC Bidirectional Power Converter Operating with Constant Power Loads. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630010.	0.7	19
27	Canards, Folded Nodes, and Mixed-Mode Oscillations in Piecewise-Linear Slow-Fast Systems. SIAM Review, 2016, 58, 653-691.	4.2	46
28	Jump bifurcations in some degenerate planar piecewise linear differential systems with three zones. Physica D: Nonlinear Phenomena, 2016, 325, 74-85.	1.3	27
29	A Simple Solution to the Braga–Mello Conjecture. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550009.	0.7	34
30	Limit Cycle and Boundary Equilibrium Bifurcations in Continuous Planar Piecewise Linear Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530008.	0.7	27
31	Uniqueness and Non-uniqueness of Limit Cycles for Piecewise Linear Differential Systems with Three Zones and No Symmetry. Journal of Nonlinear Science, 2015, 25, 861-887.	1.0	37
32	On the critical crossing cycle bifurcation in planar Filippov systems. Journal of Differential Equations, 2015, 259, 7086-7107.	1.1	37
33	Nonlinear Analysis of Interconnected Power Converters: A Case Study. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 326-335.	2.7	56
34	A general mechanism to generate three limit cycles in planar Filippov systems with two zones. Nonlinear Dynamics, 2014, 78, 251-263.	2.7	109
35	The discontinuous matching of two planar linear foci can have three nested crossing limit cycles. Publicacions Matematiques, 2014, EXTRA, 221-253.	0.2	55
36	Piecewise Linear Analogue of Hopf-Zero Bifurcation in an Extended BVP Oscillator. SEMA SIMAI Springer Series, 2014, , 113-121.	0.4	0

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37	Sliding mode control of interconnected power electronic converters in DC microgrids., 2013,,.		10
38	On the existence and uniqueness of limit cycles in planar continuous piecewise linear systems without symmetry. Nonlinear Analysis: Real World Applications, 2013, 14, 2002-2012.	0.9	89
39	Unfolding the fold-Hopf bifurcation in piecewise linear continuous differential systems with symmetry. Physica D: Nonlinear Phenomena, 2013, 250, 34-46.	1.3	15
40	Algebraically computable piecewise linear nodal oscillators. Applied Mathematics and Computation, 2013, 219, 4194-4207.	1.4	3
41	Canards in piecewise-linear systems: explosions and super-explosions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20120603.	1.0	28
42	A Hopf-Zero Degenerated Case in Symmetric Piecewise Linear Systems. Springer Proceedings in Mathematics and Statistics, 2013, , 325-333.	0.1	2
43	Planar Filippov Systems with Maximal Crossing Set and Piecewise Linear Focus Dynamics. Springer Proceedings in Mathematics and Statistics, 2013, , 221-232.	0.1	4
44	Canonical Discontinuous Planar Piecewise Linear Systems. SIAM Journal on Applied Dynamical Systems, 2012, 11, 181-211.	0.7	155
45	Nonlinear control of dc-dc bidirectional converters in stand-alone dc Microgrids. , 2012, , .		45
46	Rate-limiter stability analysis comparing bifurcation and LMI-based approaches. , 2011, , .		0
47	Sliding Dynamics Bifurcations in the Control of Boost Converters*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13293-13298.	0.4	3
48	Control of interconnected power electronic converters in dc distribution systems. , 2011, , .		21
49	Algebraic determination of limit cycles in a family of three-dimensional piecewise linear differential systems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6712-6727.	0.6	10
50	On Double Boundary Equilibrium Bifurcations in Piecewise Smooth Planar Systems. Qualitative Theory of Dynamical Systems, 2011, 10, 277-301.	0.8	12
51	Sliding Mode Controllers Design through Bifurcation Analysis *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1284-1289.	0.4	4
52	On the fold-Hopf bifurcation for continuous piecewise linear differential systems with symmetry. Chaos, 2010, 20, 033119.	1.0	9
53	On the robustness of the DC-DC boost converter under washout SMC. , 2009, , .		9
54	FOLLOWING A SADDLE-NODE OF PERIODIC ORBITS' BIFURCATION CURVE IN CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 487-495.	0.7	9

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55	ON PERIODIC ORBITS OF 3D SYMMETRIC PIECEWISE LINEAR SYSTEMS WITH REAL TRIPLE EIGENVALUES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2391-2399.	0.7	7
56	Chaos through Sliding Bifurcations in a Boost Converter under a SMC Strategy*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 279-284.	0.4	4
57	BISTABILITY AND HYSTERESIS IN SYMMETRIC 3D PIECEWISE LINEAR OSCILLATORS WITH THREE ZONES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 3633-3645.	0.7	6
58	NONHYPERBOLIC BOUNDARY EQUILIBRIUM BIFURCATIONS IN PLANAR FILIPPOV SYSTEMS: A CASE STUDY APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1377-1392.	0.7	45
59	On the existence and uniqueness of limit cycles in Liénard differential equations allowing discontinuities. Nonlinearity, 2008, 21, 2121-2142.	0.6	54
60	HORSESHOES NEAR HOMOCLINIC ORBITS FOR PIECEWISE LINEAR DIFFERENTIAL SYSTEMS IN â,,3. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1171-1184.	0.7	49
61	A BIPARAMETRIC BIFURCATION IN 3D CONTINUOUS PIECEWISE LINEAR SYSTEMS WITH TWO ZONES: APPLICATION TO CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 445-457.	0.7	22
62	Some Recent Results for Continuous Switched Linear Systems. , 2006, , .		3
63	A NEW METHODOLOGY FOR LIMIT CYCLE BIFURCATION FROM INFINITY IN N-DIMENSIONAL SYMMETRIC PIECEWISE LINEAR CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 215-220.	0.4	2
64	LIMIT CYCLE BIFURCATION INDUCED BY RATE-LIMITERS IN THE FEEDBACK LOOP. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 209-214.	0.4	2
65	DYNAMICAL COMPLEXITY NEAR NON-CONTROLLABLE 3D PIECEWISE LINEAR LUR'E SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 439-444.	0.4	o
66	The continuous matching of two stable linear systems can be unstable. Discrete and Continuous Dynamical Systems, 2006, 16, 689-703.	0.5	37
67	Some Recent Results for Continuous Switched Linear Systems. , 2006, , .		1
68	Bifurcation Phenomena in Elementary Takagi-Sugeno Fuzzy Systems., 2006,, 285-315.		0
69	LIMIT CYCLE BIFURCATION IN SISO CONTROL SYSTEMS WITH SATURATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 646-651.	0.4	1
70	INSTABILITY IN THE SIMPLEST CLASS OF CONTINUOUS SWITCHED LINEAR SYSTEMS WITH STABLE COMPONENTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 79-84.	0.4	2
71	BIFURCATION ANALYSIS OF A ROTATING ARM WITH SATURATED HAMILTONIAN CONTROL LAWS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3223-3243.	0.7	O
72	The Focus-Center-Limit Cycle Bifurcation in Symmetric 3D Piecewise Linear Systems. SIAM Journal on Applied Mathematics, 2005, 65, 1933-1951.	0.8	41

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73	BIFURCATION OF INVARIANT CONES IN PIECEWISE LINEAR HOMOGENEOUS SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2469-2484.	0.7	48
74	Stabilization of oscillations through backstepping in high-dimensional systems. IEEE Transactions on Automatic Control, 2005, 50, 705-710.	3.6	45
75	LIMIT CYCLE BIFURCATION IN 3D CONTINUOUS PIECEWISE LINEAR SYSTEMS WITH TWO ZONES: APPLICATION TO CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3153-3164.	0.7	44
76	Invariant manifolds of periodic orbits for piecewise linear three-dimensional systems. IMA Journal of Applied Mathematics, 2004, 69, 71-91.	0.8	16
77	A PIECEWISE LINEAR ELECTRONIC CIRCUIT WITH A MULTIPLICITY OF BIFURCATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3871-3881.	0.7	5
78	Existence of piecewise linear differential systems with exactly n limit cycles for all. Nonlinear Analysis: Theory, Methods & Applications, 2003, 54, 977-994.	0.6	20
79	PIECEWISE LINEAR FEEDBACK SYSTEMS WITH ARBITRARY NUMBER OF LIMIT CYCLES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 895-904.	0.7	18
80	The describing function method accuracy in first order plants with rate-limited feedback. , 2003, , .		2
81	On simplifying and classifying piecewise-linear systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 609-620.	0.1	80
82	BIFURCATION SETS OF SYMMETRICAL CONTINUOUS PIECEWISE LINEAR SYSTEMS WITH THREE ZONES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1675-1702.	0.7	31
83	Local and global bifurcations in simple Takagi-Sugeno fuzzy systems. IEEE Transactions on Fuzzy Systems, 2001, 9, 355-368.	6.5	17
84	Bifurcation Analysis of an Inverted Pendulum with Saturated Hamiltonian Control Laws. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 173-174.	0.4	1
85	A frequency-domain approach to bifurcations in control systems with saturation. International Journal of Systems Science, 2000, 31, 1261-1271.	3.7	7
86	LIMIT CYCLE BIFURCATION FROM CENTER IN SYMMETRIC PIECEWISE-LINEAR SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 895-907.	0.7	62
87	BIFURCATION ANALYSIS OF TIME-DELAY CONTROL SYSTEMS WITH SATURATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 1089-1109.	0.7	12
88	Bifurcation of a periodic orbit from infinity in planar piecewise linear vector fields. Nonlinear Analysis: Theory, Methods & Applications, 1999, 36, 623-653.	0.6	28
89	Hypernormal form calculation for triple-zero degeneracies. Bulletin of the Belgian Mathematical Society - Simon Stevin, 1999, 6, .	0.1	27
90	Bifurcation Sets of Continuous Piecewise Linear Systems with Two Zones. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 2073-2097.	0.7	214

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#	Article	IF	CITATIONS
91	Limit cycles of polynomial Liénard systems. Physical Review E, 1998, 58, 5185-5187.	0.8	12
92	Behavior patterns of logistic models with a delay. Mathematics and Computers in Simulation, 1997, 44, 123-141.	2.4	4
93	Hopf-like bifurcations in planar piecewise linear systems. Publicacions Matematiques, 1997, 41, 135-148.	0.2	38
94	Global first harmonic bifurcation diagram for odd piecewise linear control systems. Dynamical Systems, 1996, 11, 49-88.	0.7	25
95	A case study for homoclinic chaos in an autonomous electronic circuit. Physica D: Nonlinear Phenomena, 1993, 62, 230-253.	1.3	59
96	A Method for Homoclinic and Heteroclinic Continuation in Two and Three Dimensions. , 1990, , 197-210.		12
97	Route to chaos via strange non-chaotic attractors. Journal of Physics A, 1990, 23, L383-L387.	1.6	44
98	Symbolic Computation and Bifurcation Methods. , 1990, , 105-122.		1
99	Order through fluctuations, and systems dynamics models. Environment and Planning B: Planning and Design, 1985, 12, 103-112.	1.7	4
100	Bifurcation analysis of low-order nonlinear control systems with delay. , 0, , .		2
101	Bifurcation Phenomena in Elementary Takagi–Sugeno Fuzzy Systems. , 0, , 285-315.		O