Albert Cj Luo

List of Publications by Year
in descending order

66 papers	1,894 citations	279798 23 h-index	254184 43 g-index
67 all docs	67 docs citations	67 times ranked	553 citing authors

#	Article	IF	Citations
1	A theory for non-smooth dynamic systems on the connectable domains. Communications in Nonlinear Science and Numerical Simulation, 2005, 10, 1-55.	3.3	194
2	A theory for synchronization of dynamical systems. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1901-1951.	3.3	149
3	Approximate solutions of periodic motions in nonlinear systems via a generalized harmonic balance. JVC/Journal of Vibration and Control, 2012, 18, 1661-1674.	2.6	122
4	Stick and non-stick periodic motions in periodically forced oscillators with dry friction. Journal of Sound and Vibration, 2006, 291, 132-168.	3.9	115
5	A theory for flow switchability in discontinuous dynamical systems. Nonlinear Analysis: Hybrid Systems, 2008, 2, 1030-1061.	3.5	100
6	The mapping dynamics of periodic motions for a three-piecewise linear system under a periodic excitation. Journal of Sound and Vibration, 2005, 283, 723-748.	3.9	95
7	Periodic motions and grazing in a harmonically forced, piecewise, linear oscillator with impacts. Chaos, Solitons and Fractals, 2005, 24, 567-578.	5.1	91
8	Chaotic motion in a micro-electro–mechanical system with non-linearity from capacitors. Communications in Nonlinear Science and Numerical Simulation, 2002, 7, 31-49.	3.3	71
9	Imaginary, sink and source flows in the vicinity of the separatrix of non-smooth dynamic systems. Journal of Sound and Vibration, 2005, 285, 443-456.	3.9	66
10	ANALYTICAL PREDICTIONS OF CHAOS IN A NON-LINEAR ROD. Journal of Sound and Vibration, 1999, 227, 523-544.	3.9	61
11	Grazing phenomena in a periodically forced, friction-induced, linear oscillator. Communications in Nonlinear Science and Numerical Simulation, 2006, 11, 777-802.	3.3	56
12	Global chaos in a periodically forced, linear system with a dead-zone restoring force. Chaos, Solitons and Fractals, 2004, 19, 1189-1199.	5.1	54
13	Equilibrium and buckling stability for axially traveling plates. Communications in Nonlinear Science and Numerical Simulation, 2004, 9, 343-360.	3.3	42
14	A quantitative stability and bifurcation analyses of the generalized duffing oscillator with strong nonlinearity. Journal of the Franklin Institute, 1997, 334, 447-459.	3.4	40
15	Discontinuous dynamics of a non-linear, self-excited, friction-induced, periodically forced oscillator. Nonlinear Analysis: Real World Applications, 2012, 13, 241-257.	1.7	37
16	The resonance theory for stochastic layers in nonlinear dynamic systems. Chaos, Solitons and Fractals, 2001, 12, 2493-2508.	5.1	33
17	On bifurcation trees of period-1 to period-2 motions in a nonlinear Jeffcott rotor system. International Journal of Mechanical Sciences, 2019, 160, 429-450.	6.7	33
18	An approximate theory for geometrically nonlinear thin plates. International Journal of Solids and Structures, 2000, 37, 7655-7670.	2.7	32

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19	Periodic Motions in a Periodically Forced Oscillator Moving on an Oscillating Belt With Dry Friction. Journal of Computational and Nonlinear Dynamics, 2006, 1, 212-220.	1.2	32
20	Periodic motions in a simplified brake system with a periodic excitation. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2389-2414.	3.3	29
21	On flow switching bifurcations in discontinuous dynamical systems. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 100-116.	3.3	28
22	The dynamics of stochastic and resonant layers in a periodically driven pendulum. Chaos, Solitons and Fractals, 2000, 11, 2349-2359.	5.1	26
23	Multiple bifurcation trees of period-1 motions to chaos in a periodically forced, time-delayed, hardening Duffing oscillator. Chaos, Solitons and Fractals, 2016, 89, 405-434.	5.1	26
24	Chaotic motion in the resonant separatrix bands of a Mathieu–Duffing oscillator with a twin-well potential. Journal of Sound and Vibration, 2004, 273, 653-666.	3.9	23
25	The chaotic synchronization of a controlled pendulum with a periodically forced, damped Duffing oscillator. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4704-4717.	3.3	20
26	Complex period-1 motions in a periodically forced, quadratic nonlinear oscillator. JVC/Journal of Vibration and Control, 2015, 21, 896-906.	2.6	20
27	Existence and analytical predictions of periodic motions in a periodically forced, nonlinear friction oscillator. Journal of Sound and Vibration, 2008, 309, 129-149.	3.9	18
28	Synchronization of a periodically forced Duffing oscillator with a periodically excited pendulum. Nonlinear Analysis: Real World Applications, 2011, 12, 1810-1827.	1.7	17
29	Predictions of quasi-periodic and chaotic motions in nonlinear Hamiltonian systems. Chaos, Solitons and Fractals, 2006, 28, 627-649.	5.1	16
30	Synchronization dynamics of two different dynamical systems. Chaos, Solitons and Fractals, 2011, 44, 362-380.	5.1	16
31	On complex periodic motions and bifurcations in a periodically forced, damped, hardening Duffing oscillator. Chaos, Solitons and Fractals, 2015, 81, 378-399.	5.1	16
32	Dynamics of traveling, inextensible cables. Communications in Nonlinear Science and Numerical Simulation, 2004, 9, 531-542.	3.3	13
33	A periodically forced, piecewise linear system. Part I: Local singularity and grazing bifurcation. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 379-396.	3.3	13
34	On the computation of Lyapunov exponents for forced vibration of a Lennard–Jones oscillator. Chaos, Solitons and Fractals, 2005, 23, 833-841.	5.1	12
35	A theory for n-dimensional nonlinear dynamics on continuous vector fields. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 117-194.	3.3	12
36	On motions and switchability in a periodically forced, discontinuous system with a parabolic boundary. Nonlinear Analysis: Real World Applications, 2010, 11, 2624-2633.	1.7	12

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37	Nonlinear dynamics theory of stochastic layers in Hamiltonian systems. Applied Mechanics Reviews, 2004, 57, 161-172.	10.1	11
38	Flow switchability and periodic motions in a periodically forced, discontinuous dynamical system. Nonlinear Analysis: Real World Applications, 2009, 10, 3028-3044.	1.7	11
39	Period-m Motions and Bifurcation Trees in a Periodically Excited, Quadratic Nonlinear Oscillator. Discontinuity, Nonlinearity, and Complexity, 2013, 2, 263-288.	0.2	11
40	Periodic Motions and Stability in a Semi-Active Suspension System with MR Damping. JVC/Journal of Vibration and Control, 2007, 13, 687-709.	2.6	10
41	Sinusoidal synchronization of a Duffing oscillator with a chaotic pendulum. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3080-3089.	2.1	9
42	Periodic and chaotic synchronizations of two distinct dynamical systems under sinusoidal constraints. Chaos, Solitons and Fractals, 2012, 45, 998-1011.	5.1	9
43	On Experimental Periodic Motions in a Duï¬ng Oscillatory Circuit. Journal of Vibration Testing and System Dynamics, 2019, 3, 55-70.	0.2	9
44	On a nonlinear theory of thin rods. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 4181-4197.	3.3	8
45	Chaotic motions in the resonant separatrix band of a parametrically excited pendulum. Communications in Nonlinear Science and Numerical Simulation, 2000, 5, 135-140.	3.3	7
46	Grazing bifurcations of a harmonically excited oscillator moving on a time-varying translation belt. Nonlinear Analysis: Real World Applications, 2008, 9, 2156-2174.	1.7	7
47	Sliding and transversal motions on an inclined boundary in a periodically forced discontinuous system. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 86-98.	3.3	7
48	On periodic solutions of a second-order, time-delayed, discontinuous dynamical system. Chaos, Solitons and Fractals, 2018, 114, 216-229.	5.1	7
49	On resonant separatrix bands of a Duffing oscillator with a twin-well potential. Chaos, Solitons and Fractals, 2003, 15, 771-782.	5.1	6
50	On grazing and strange attractors fragmentation in non-smooth dynamical systems. Communications in Nonlinear Science and Numerical Simulation, 2006, 11, 922-933.	3.3	6
51	A periodically forced, piecewise linear system, Part II: The fragmentation mechanism of strange attractors and grazing. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 986-1004.	3.3	6
52	Switching dynamics of multiple linear oscillators. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3472-3485.	3.3	5
53	Paired asymmetric periodic oscillations in a pair of first-order asymmetric nonlinear circuit systems. Mechanical Systems and Signal Processing, 2022, 171, 108810.	8.0	5
54	Nonlinear Vibration of Heated Co-rotating Disks. JVC/Journal of Vibration and Control, 2007, 13, 583-601.	2.6	4

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55	A theory for nonlinear soft webs. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 2184-2199.	3.3	4
56	Bifurcation Dynamics of a Damped Parametric Pendulum. Synthesis Lectures on Mechanical Engineering, 2019, 3, 1-98.	0.1	4
57	Period-1 to Period-8 Motions in a Nonlinear Jeffcott Rotor System. Journal of Computational and Nonlinear Dynamics, 2020, , .	1.2	4
58	A parameter study of the eccentricity frequency and amplitude, and chip length effects on a machine tool with multiple boundaries. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2575-2602.	3.3	2
59	Stable and unstable periodic solutions to the mathieu-duffing oscillator. , 2012, , .		2
60	Numerical investigations of resonant layers in a periodically-driven pendulum. Communications in Nonlinear Science and Numerical Simulation, 1999, 4, 210-215.	3.3	0
61	Nonlinear resonant traveling waves in rotating disks. Communications in Nonlinear Science and Numerical Simulation, 2000, 5, 98-104.	3.3	0
62	An Accurate Standard Mapping Method for Stochastic Layers in Nonlinear Hamiltonian Systems. Journal of Computational Methods in Sciences and Engineering, 2003, 3, 41-53.	0.2	0
63	Chapter 2 Grazing Flows in Discontinuous Dynamic Systems. Edited Series on Advances in Nonlinear Science and Complexity, 2006, 1, 127-190.	0.3	0
64	Sequential Bifurcation Trees to Chaos in Nonlinear Time-Delay Systems. Synthesis Lectures on Mechanical Engineering, 2020, 5, 1-87.	0.1	0
65	A numerical investigation of chaotic motions in the stochastic layer of a parametrically excited, buckled beam. , 2001, , 336-337.		0
66	Towards Analytical Chaotic Evolutions in Brusselators. Synthesis Lectures on Mechanical Engineering, 2020, 5, 1-108.	0.1	0