Miguel A F SanjuÃ¡n

List of Publications by Year
in descending order

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289	5,856	94433	123424
papers	citations	37 h-index	61 g-index

321	321	321	2361
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlling chaotic transients in the HÃ©non and the Lozi map with the safety function. Journal of Difference Equations and Applications, 2023, 29, 876-884.	1.1	2
2	Noise activates escapes in closed Hamiltonian systems. Communications in Nonlinear Science and Numerical Simulation, 2022, 105, 106074.	3.3	3
3	A stochastic hybrid model with a fast concentration bias for chemotactic cellular attraction. Chaos, Solitons and Fractals, 2022, 156, 111792.	5.1	0
4	Weak dissipation drives and enhances Wada basins in three-dimensional chaotic scattering. Chaos, Solitons and Fractals, 2022, 156, 111891.	5.1	1
5	Vibrational resonance by using a real-time scale transformation method. Physica Scripta, 2022, 97, 045207.	2.5	2
6	A novel adaptive moving average method for signal denoising in strong noise background. European Physical Journal Plus, 2022, 137, 1.	2.6	6
7	Complex bio rhythms. European Physical Journal: Special Topics, 2022, 231, 815-818.	2.6	3
8	Classifying basins of attraction using the basin entropy. Chaos, Solitons and Fractals, 2022, 159, 112112.	5.1	10
9	Time-dependent effects hinder cooperation on the public goods game. Chaos, Solitons and Fractals, 2022, 160, 112206.	5.1	2
10	Control of escapes in two-degree-of-freedom open Hamiltonian systems. Chaos, 2022, 32, 063118.	2.5	2
11	A mechanism explaining the metamorphoses of KAM islands in nonhyperbolic chaotic scattering. Nonlinear Dynamics, 2022, 109, 1123-1133.	5.2	1
12	Stochastic resonance in image denoising as an alternative to traditional methods and deep learning. Nonlinear Dynamics, 2022, 109, 2163-2183.	5.2	6
13	A test for fractal boundaries based on the basin entropy. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105588.	3.3	13
14	How to detect Wada basins. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 717-739.	0.9	7
15	Transient chaos in time-delayed systems subjected to parameter drift. Journal of Physics Complexity, 2021, 2, 025001.	2.2	4
16	Transient Dynamics of the Lorenz System with a Parameter Drift. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150029.	1.7	4
17	Wada index based on the weighted and truncated Shannon entropy. Nonlinear Dynamics, 2021, 104, 739-751.	5.2	17
18	Forcing the escape: Partial control of escaping orbits from a transient chaotic region. Nonlinear Dynamics, 2021, 104, 1603-1612.	5.2	3

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19	The effect of time ordering and concurrency in a mathematical model of chemoradiotherapy. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105693.	3.3	8
20	Improvement in the stochastic resonance in the Duffing oscillator subjected to a Poisson white noise excitation. European Physical Journal Plus, 2021, 136, 1.	2.6	3
21	Adaptive denoising for strong noisy images by using positive effects of noise. European Physical Journal Plus, 2021, 136, 1.	2.6	9
22	Introduction to Focus Issue: Recent advances in modeling complex systems: Theory and applications. Chaos, 2021, 31, 070401.	2.5	3
23	Artificial Intelligence, Chaos, Prediction and Understanding in Science. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150173.	1.7	6
24	Final state sensitivity in noisy chaotic scattering. Chaos, Solitons and Fractals, 2021, 150, 111181.	5.1	6
25	Trapping enhanced by noise in nonhyperbolic and hyperbolic chaotic scattering. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105905.	3.3	3
26	Stochastic resetting in the Kramers problem: A Monte Carlo approach. Chaos, Solitons and Fractals, 2021, 152, 111342.	5.1	9
27	Ergodic decay laws in Newtonian and relativistic chaotic scattering. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 105987.	3.3	4
28	Delay-induced resonance suppresses damping-induced unpredictability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200232.	3.4	7
29	The role of noise in the tumor dynamics under chemotherapy treatment. European Physical Journal Plus, 2021, 136, 1.	2.6	4
30	Effect of Static Bifurcation on Logical Stochastic Resonance in a Symmetric Bistable System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	5
31	Controlling Infectious Diseases: The Decisive Phase Effect on a Seasonal Vaccination Strategy. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	3
32	The saddle-straddle method to test for Wada basins. Communications in Nonlinear Science and Numerical Simulation, 2020, 84, 105167.	3.3	10
33	Measuring the transition between nonhyperbolic and hyperbolic regimes in open Hamiltonian systems. Nonlinear Dynamics, 2020, 99, 3029-3039.	5.2	15
34	Tumor Stabilization Induced by T-Cell Recruitment Fluctuations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050179.	1.7	6
35	Influence of the gravitational radius on asymptotic behavior of the relativistic Sitnikov problem. Physical Review E, 2020, 102, 042204.	2.1	5
36	Corrigendum to â€œThe saddle-straddle method to test for Wada basinsâ€•[Commun. Nonlinear Sci. Numer. Simulat. 84 (2020) 105167]. Communications in Nonlinear Science and Numerical Simulation, 2020, 90, 105334.	3.3	0

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37	Fractional damping enhances chaos in the nonlinear Helmholtz oscillator. Nonlinear Dynamics, 2020, 102, 2323-2337.	5.2	7
38	Effects of Different Fast Periodic Excitations on the Pitchfork Bifurcation and Vibrational Resonance. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050092.	1.7	6
39	Transient chaos under coordinate transformations in relativistic systems. Physical Review E, 2020, 101, 062212.	2.1	3
40	Adaptive piecewise re-scaled stochastic resonance excited by the LFM signal. European Physical Journal Plus, 2020, 135, 1.	2.6	11
41	Stochastic resonance induced by an unknown linear frequency modulated signal in a strong noise background. Chaos, 2020, 30, 043128.	2.5	6
42	Time-frequency analysis of a new aperiodic resonance. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105258.	3.3	15
43	Delay-Induced Resonance in the Time-Delayed Duffing Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030007.	1.7	19
44	Recovering an unknown signal completely submerged in strong noise by a new stochastic resonance method. Communications in Nonlinear Science and Numerical Simulation, 2019, 66, 156-166.	3.3	31
45	Amplification of the LFM signal by using piecewise vibrational methods. JVC/Journal of Vibration and Control, 2019, 25, 141-150.	2.6	6
46	Preface to the Special Issue: Nonlinear systems theory and applications in engineering, control and life sciences. Nonlinear Dynamics, 2019, 97, 1783-1784.	5.2	1
47	The role of dose density in combination cancer chemotherapy. Communications in Nonlinear Science and Numerical Simulation, 2019, 79, 104918.	3.3	8
48	Predictability of Chaotic Dynamics. Springer Series in Synergetics, 2019, , .	0.4	6
49	A new approach of the partial control method in chaotic systems. Nonlinear Dynamics, 2019, 98, 873-887.	5.2	5
50	Fourier analysis of a delayed Rulkov neuron network. Communications in Nonlinear Science and Numerical Simulation, 2019, 75, 62-75.	3.3	6
51	Nonlinear cancer chemotherapy: Modelling the Norton-Simon hypothesis. Communications in Nonlinear Science and Numerical Simulation, 2019, 70, 307-317.	3.3	17
52	On the LFM signal improvement by piecewise vibrational resonance using a new spectral amplification factor. IET Signal Processing, 2019, 13, 65-69.	1.5	14
53	Predictability. Springer Series in Synergetics, 2019, , 101-129.	0.4	0
54	Lyapunov Exponents. Springer Series in Synergetics, 2019, , 33-69.	0.4	0

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55	A Detailed Example: Galactic Dynamics. Springer Series in Synergetics, 2019, , 151-188.	0.4	0
56	Modelling Cancer Dynamics Using Cellular Automata. STEAM-H: Science, Technology, Engineering, Agriculture, Mathematics & Health, 2019, , 159-205.	0.0	3
57	Dynamical Regimes and Timescales. Springer Series in Synergetics, 2019, , 71-99.	0.4	0
58	Forecasting and Chaos. Springer Series in Synergetics, 2019, , 1-31.	0.4	0
59	Uncertainty dimension and basin entropy in relativistic chaotic scattering. Physical Review E, 2018, 97, 042214.	2.1	15
60	Partial control of delay-coordinate maps. Nonlinear Dynamics, 2018, 92, 1419-1429.	5.2	3
61	Bogdanovâ€“Takens resonance in time-delayed systems. Nonlinear Dynamics, 2018, 91, 1939-1947.	5.2	6
62	Improving the weak aperiodic signal by three kinds of vibrational resonance. Nonlinear Dynamics, 2018, 91, 2699-2713.	5.2	20
63	Stochastic resonance in dissipative drift motion. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 62-69.	3.3	11
64	Supply based on demand dynamical model. Communications in Nonlinear Science and Numerical Simulation, 2018, 57, 402-414.	3.3	3
65	Self-similarity and adaptive aperiodic stochastic resonance in a fractional-order system. Nonlinear Dynamics, 2018, 91, 1697-1711.	5.2	27
66	Computing Complex Horseshoes by Means of Piecewise Maps. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830039.	1.7	1
67	Resonant behavior and unpredictability in forced chaotic scattering. Physical Review E, 2018, 98, .	2.1	10
68	Reducing the number of time delays in coupled dynamical systems. European Physical Journal: Special Topics, 2018, 227, 1281-1289.	2.6	2
69	Wada structures in a binary black hole system. Physical Review D, 2018, 98, .	4.7	16
70	Low-dimensional paradigms for high-dimensional hetero-chaos. Chaos, 2018, 28, 103110.	2.5	18
71	From local uncertainty to global predictions: Making predictions on fractal basins. PLoS ONE, 2018, 13, e0194926.	2.5	7
72	Vibrational Resonance in an Overdamped System with a Fractional Order Potential Nonlinearity. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850082.	1.7	10

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73	Ascertaining when a basin is Wada: the merging method. Scientific Reports, 2018, 8, 9954.	3.3	20
74	Basin Entropy, a Measure of Final State Unpredictability and Its Application to the Chaotic Scattering of Cold Atoms. Understanding Complex Systems, 2018, , 9-34.	0.6	5
75	Partial control of chaos: How to avoid undesirable behaviors with small controls in presence of noise. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 3237-3274.	0.9	0
76	Global relativistic effects in chaotic scattering. Physical Review E, 2017, 95, 032205.	2.1	9
77	Partially controlling transient chaos in the Lorenz equations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160211.	3.4	18
78	Physics of cancer: the new adventure of physicists against cancer. Contemporary Physics, 2017, 58, 176-178.	1.8	0
79	Enhancing the Weak Signal With Arbitrary High-Frequency by Vibrational Resonance in Fractional-Order Duffing Oscillators. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	1.2	17
80	Dynamics of the cell-mediated immune response to tumour growth. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160291.	3.4	20
81	Detecting the weak high-frequency character signal by vibrational resonance in the Duffing oscillator. Nonlinear Dynamics, 2017, 89, 2621-2628.	5.2	46
82	Predictability of Chaotic Dynamics. Springer Series in Synergetics, 2017, , .	0.4	14
83	Vibrational resonance in a harmonically trapped potential system. Communications in Nonlinear Science and Numerical Simulation, 2017, 47, 370-378.	3.3	25
84	Chaotic dynamics and fractal structures in experiments with cold atoms. Physical Review A, 2017, 95, .	2.5	34
85	Stochastic resonance in overdamped systems with fractional power nonlinearity. European Physical Journal Plus, 2017, 132, 1.	2.6	10
86	The dose-dense principle in chemotherapy. Journal of Theoretical Biology, 2017, 430, 169-176.	1.7	15
87	A new method to reduce the number of time delays in a network. Scientific Reports, 2017, 7, 2744.	3.3	3
88	Noise-induced resonance at the subharmonic frequency in bistable systems. Nonlinear Dynamics, 2017, 87, 1721-1730.	5.2	21
89	Wada property in systems with delay. Communications in Nonlinear Science and Numerical Simulation, 2017, 43, 220-226.	3.3	21
90	Destruction of solid tumors by immune cells. Communications in Nonlinear Science and Numerical Simulation, 2017, 44, 390-403.	3.3	13

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91	Bifurcation Analysis and Nonlinear Decay of a Tumor in the Presence of an Immune Response. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750223.	1.7	11
92	Escaping from a chaotic saddle in the presence of noise. International Journal of Nonlinear Dynamics and Control, 2017, 1, 78.	0.1	0
93	Lyapunov Exponents. Springer Series in Synergetics, 2017, , 25-59.	0.4	1
94	Predictability. Springer Series in Synergetics, 2017, , 91-127.	0.4	1
95	Dynamical Regimes and Time Scales. Springer Series in Synergetics, 2017, , 61-89.	0.4	0
96	Kink solitary solutions to a hepatitis C evolution model. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 0-0.	0.9	1
97	Forecasting and Chaos. Springer Series in Synergetics, 2017, , 1-24.	0.4	0
98	When the firm prevents the crash: Avoiding market collapse with partial control. PLoS ONE, 2017, 12, e0181925.	2.5	0
99	Role of dark matter haloes on the predictability of computed orbits. Astronomy and Astrophysics, 2016, 595, A68.	5.1	3
100	Entanglement Entropy in a Triangular Billiard. Entropy, 2016, 18, 79.	2.2	2
101	Parametric partial control of chaotic systems. Nonlinear Dynamics, 2016, 86, 869-876.	5.2	10
102	Basin entropy: a new tool to analyze uncertainty in dynamical systems. Scientific Reports, 2016, 6, 31416.	3.3	135
103	Exploring Chaos and Entanglement in the HÃ©nonâ€“Heiles System Using Squeezed Coherent States. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650052.	1.7	1
104	Transient chaotic transport in dissipative drift motion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1621-1626.	2.1	5
105	Stochastic P-bifurcation and stochastic resonance in a noisy bistable fractional-order system. Communications in Nonlinear Science and Numerical Simulation, 2016, 41, 104-117.	3.3	76
106	Vibrational Resonance in Monostable Systems. Springer Series in Synergetics, 2016, , 83-117.	0.4	1
107	Harmonic and Nonlinear Resonances. Springer Series in Synergetics, 2016, , 1-38.	0.4	1
108	Coherence and Chaotic Resonances. Springer Series in Synergetics, 2016, , 333-350.	0.4	0

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109	Multiple resonance and anti-resonance in coupled Duffing oscillators. Nonlinear Dynamics, 2016, 83, 1803-1814.	5.2	31
110	Effects of the spike timing-dependent plasticity on the synchronisation in a random Hodgkinâ€“Huxley neuronal network. Communications in Nonlinear Science and Numerical Simulation, 2016, 34, 12-22.	3.3	42
111	Nonlinear Resonances. Springer Series in Synergetics, 2016, , .	0.4	84
112	Modern Dynamics. Contemporary Physics, 2016, 57, 242-245.	1.8	1
113	Vibrational subharmonic and superharmonic resonances. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 362-372.	3.3	32
114	Decay Dynamics of Tumors. PLoS ONE, 2016, 11, e0157689.	2.5	12
115	Effect of geometry on the classical entanglement in a chaotic optical fiber. Optics Express, 2015, 23, 32191.	3.4	3
116	Testing for Basins of Wada. Scientific Reports, 2015, 5, 16579.	3.3	41
117	Bifurcation Transition and Nonlinear Response in a Fractional-Order System. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	12
118	Saddle-Node Bifurcation and Vibrational Resonance in a Fractional System with an Asymmetric Bistable Potential. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550023.	1.7	11
119	Bifurcation and resonance in a fractional Mathieu-Duffing oscillator. European Physical Journal B, 2015, 88, 1.	1.5	22
120	Optimizing the Electrical Power in an Energy Harvesting System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550171.	1.7	17
121	Mutation-selection equilibrium in finite populations playing a Hawkâ€“Dove game. Communications in Nonlinear Science and Numerical Simulation, 2015, 25, 66-73.	3.3	5
122	The forecast of predictability for computed orbits in galactic models. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3797-3811.	4.4	6
123	Infinite horseshoes and complex dynamics in physical systems. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 866-871.	3.3	0
124	Signal generation and enhancement in a delayed system. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 1158-1168.	3.3	13
125	Cyclic motifs as the governing topological factor in time-delayed oscillator networks. Physical Review E, 2014, 90, 052920.	2.1	3
126	Vibrational and Ghost-Vibrational Resonances in a Modified Chua's Circuit Model Equation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430031.	1.7	9

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127	Energy Harvesting Enhancement by Vibrational Resonance. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430019.	1.7	15
128	A Validated Mathematical Model of Tumor Growth Including Tumorâ€“Host Interaction, Cell-Mediated Immune Response and Chemotherapy. Bulletin of Mathematical Biology, 2014, 76, 2884-2906.	1.9	51
129	Frequency dispersion in the time-delayed Kuramoto model. Physical Review E, 2014, 89, 032905.	2.1	20
130	Control of collective network chaos. Chaos, 2014, 24, 023127.	2.5	6
131	Ghost-vibrational resonance. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 4003-4012.	3.3	37
132	Avoiding healthy cells extinction in a cancer model. Journal of Theoretical Biology, 2014, 349, 74-81.	1.7	21
133	How to minimize the control frequency to sustain transient chaos using partial control. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 726-737.	3.3	5
134	Chaos-Based Turbo Systems in Fading Channels. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 530-541.	5.4	21
135	Effect of squeezing and Planck constant dependence in short time semiclassical entanglement. European Physical Journal D, 2014, 68, 1.	1.3	4
136	Impact of quantumâ€“classical correspondence on entanglement enhancement by single-mode squeezing. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2603-2610.	2.1	7
137	When less is more: Partial control to avoid extinction of predators in an ecological model. Ecological Complexity, 2014, 19, 1-8.	2.9	14
138	Effects of periodic forcing in chaotic scattering. Physical Review E, 2014, 89, 042909.	2.1	10
139	Modulation of synchronization dynamics in a network of self-sustained systems. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 656-672.	3.3	4
140	Controlling unpredictability in the randomly driven HÃ©nonâ€“Heiles system. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 3449-3457.	3.3	16
141	Vibrational resonance in the Morse oscillator. Pramana - Journal of Physics, 2013, 81, 127-141.	1.8	26
142	Vibrational resonance in groundwater-dependent plant ecosystems. Ecological Complexity, 2013, 15, 33-42.	2.9	30
143	Pitchfork bifurcation and vibrational resonance in a fractional-order Duffing oscillator. Pramana - Journal of Physics, 2013, 81, 943-957.	1.8	13
144	Weakly noisy chaotic scattering. Physical Review E, 2013, 88, 032914.	2.1	14

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145	Vibrational resonance in a time-delayed genetic toggle switch. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 411-416.	3.3	45
146	Electronic circuit implementation of the chaotic Rulkov neuron model. Journal of the Franklin Institute, 2013, 350, 2901-2910.	3.4	10
147	Effect of multiple time-delay on vibrational resonance. Chaos, 2013, 23, 013136.	2.5	35
148	New developments in classical chaotic scattering. Reports on Progress in Physics, 2013, 76, 016001.	20.1	81
149	Effective suppressibility of chaos. Chaos, 2013, 23, 023107.	2.5	1
150	Bursting frequency versus phase synchronization in time-delayed neuron networks. Physical Review E, 2013, 87, 052903.	2.1	26
151	Non-smooth transitions in a simple city traffic model analyzed through supertracks. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 81-88.	3.3	12
152	Predictability of orbits in coupled systems through finite-time Lyapunov exponents. New Journal of Physics, 2013, 15, 113064.	2.9	16
153	STRONG SENSITIVITY OF THE VIBRATIONAL RESONANCE INDUCED BY FRACTAL STRUCTURES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350129.	1.7	6
154	PHASE CONTROL IN THE MASS-SPRING MODEL WITH NONSMOOTH STIFFNESS AND EXTERNAL EXCITATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330042.	1.7	2
155	PARTIAL CONTROL OF ESCAPES IN CHAOTIC SCATTERING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350008.	1.7	5
156	EXPERIMENTAL EVIDENCE FOR VIBRATIONAL RESONANCE AND ENHANCED SIGNAL TRANSMISSION IN CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350189.	1.7	28
157	Vibrational Resonance in a Duffing System with a Generalized Delayed Feedback. Journal of Applied Nonlinear Dynamics, 2013, 2, 397-408.	0.3	13
158	The efficiency of a random and fast switch in complex dynamical systems. New Journal of Physics, 2012, 14, 083022.	2.9	10
159	Dynamics of partial control. Chaos, 2012, 22, 047507.	2.5	24
160	TO ESCAPE OR NOT TO ESCAPE, THAT IS THE QUESTION â€" PERTURBING THE HÃ‰NONâ€“HEILES HAMILTONIAN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230010.	1.7	42
161	PARTIAL CONTROL OF TRANSIENT CHAOS IN ELECTRONIC CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250032.	1.7	10
162	Finding safety in partially controllable chaotic systems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4274-4280.	3.3	26

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163	NONLINEAR RESPONSE OF THE MASS-SPRING MODEL WITH NONSMOOTH STIFFNESS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250006.	1.7	10
164	Competitive decoders for turbo-like chaos-based systems. IET Communications, 2012, 6, 1278.	2.2	7
165	Effect of the phase on the dynamics of a perturbed bouncing ball system. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3279-3286.	3.3	11
166	Vibrational resonance in biological nonlinear maps. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3435-3445.	3.3	52
167	Effect of noise on the reinjection probability density in intermittency. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3587-3596.	3.3	23
168	Transition of phase locking modes in a minimal neuronal network. Neurocomputing, 2012, 81, 60-66.	5.9	5
169	Novel vibrational resonance in multistable systems. Chaos, 2011, 21, 033106.	2.5	74
170	VIBRATIONAL RESONANCE IN AN ASYMMETRIC DUFFING OSCILLATOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 275-286.	1.7	50
171	Map-based models in neuronal dynamics. Physics Reports, 2011, 501, 1-74.	25.6	232
172	Fractal structures in nonlinear plasma physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 371-395.	3.4	50
173	Theory and numerics of vibrational resonance in Duffing oscillators with time-delayed feedback. Physical Review E, 2011, 83, 066205.	2.1	91
174	Basin boundary metamorphoses and phase control. Europhysics Letters, 2010, 90, 30002.	2.0	2
175	DETECTING DETERMINISM IN TIME SERIES WITH ORDINAL PATTERNS: A COMPARATIVE STUDY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2915-2924.	1.7	29
176	ESCAPING DYNAMICS IN THE PRESENCE OF DISSIPATION AND NOISE IN SCATTERING SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2783-2793.	1.7	27
177	EFFECT OF STEP SIZE ON BIFURCATIONS AND CHAOS OF A MAP-BASED BVP OSCILLATOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1789-1795.	1.7	2
178	PREDICTING THE SYNCHRONIZATION OF A NETWORK OF ELECTRONIC REPRESSILATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1751-1760.	1.7	3
179	Permutation complexity of spatiotemporal dynamics. Europhysics Letters, 2010, 90, 10007.	2.0	14
180	PHASE CONTROL IN NONLINEAR SYSTEMS. Series on Stability, Vibration and Control of Systems - Series B, 2010, , 147-187.	0.2	3

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181	Synchronization of uncoupled excitable systems induced by white and coloured noise. New Journal of Physics, 2010, 12, 053040.	2.9	19
182	Partial control of chaotic transients using escape times. New Journal of Physics, 2010, 12, 113038.	2.9	14
183	Role of depth and location of minima of a double-well potential on vibrational resonance. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 465101.	2.1	28
184	Improving the Performance of Chaos-Based Modulations Via Serial Concatenation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 448-459.	5.4	15
185	PARTIAL CONTROL OF CHAOTIC SYSTEMS. Series on Stability, Vibration and Control of Systems - Series B, 2010, , 315-335.	0.2	2
186	Analysis of Chaos-Based Coded Modulations under Intersymbol Interference. Journal of Computers, 2010, 5, .	0.4	5
187	A New Mechanical Model for Particle Transport by Surface Waves and Applications. Mathematical Problems in Engineering, 2009, 2009, 1-17.	1.1	0
188	Effect of noise on chaotic scattering. Physical Review E, 2009, 79, 047202.	2.1	37
189	Entraining synthetic genetic oscillators. Chaos, 2009, 19, 033139.	2.5	3
190	Single and multiple vibrational resonance in a quintic oscillator with monostable potentials. Physical Review E, 2009, 80, 046608.	2.1	89
191	Exploring partial control of chaotic systems. Physical Review E, 2009, 79, 026217.	2.1	20
192	Analysis of vibrational resonance in a quintic oscillator. Chaos, 2009, 19, 043128.	2.5	69
193	Controlling crisis-induced intermittency using its relation with a boundary crisis. New Journal of Physics, 2009, 11, 023025.	2.9	6
194	Turbo-like structures for chaos encoding and decoding. IEEE Transactions on Communications, 2009, 57, 597-601.	7.8	19
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