JesÃºs M Seoane

List of Publications by Year
in descending order

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52	888	516710	501196
papers	citations	16	28
		h-index	g-index

53	53	53	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New developments in classical chaotic scattering. Reports on Progress in Physics, 2013, 76, 016001.	20.1	81
2	Basin topology in dissipative chaotic scattering. Chaos, 2006, 16, 023101.	2.5	60
3	Symmetry-breaking analysis for the general Helmholtzâ€“Duffing oscillator. Chaos, Solitons and Fractals, 2007, 34, 197-212.	5.1	52
4	Exponential decay and scaling laws in noisy chaotic scattering. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 110-116.	2.1	52
5	Fractal dimension in dissipative chaotic scattering. Physical Review E, 2007, 76, 016208.	2.1	51
6	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
7	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
8	Effect of noise on chaotic scattering. Physical Review E, 2009, 79, 047202.	2.1	37
9	A SIR-type model describing the successive waves of COVID-19. Chaos, Solitons and Fractals, 2021, 144, 110682.	5.1	36
10	Avoiding escapes in open dynamical systems using phase control. Physical Review E, 2008, 78, 016205.	2.1	27
11	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
12	Phase control of excitable systems. New Journal of Physics, 2008, 10, 073030.	2.9	22
13	Avoiding healthy cells extinction in a cancer model. Journal of Theoretical Biology, 2014, 349, 74-81.	1.7	21
14	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
15	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
16	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
17	Nonlinear cancer chemotherapy: Modelling the Norton-Simon hypothesis. Communications in Nonlinear Science and Numerical Simulation, 2019, 70, 307-317.	3.3	17
18	Controlling unpredictability in the randomly driven HÃ©nonâ€“Heiles system. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 3449-3457.	3.3	16

#	Article	IF	Citations
19	Energy Harvesting Enhancement by Vibrational Resonance. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430019.	1.7	15
20	The dose-dense principle in chemotherapy. Journal of Theoretical Biology, 2017, 430, 169-176.	1.7	15
21	Uncertainty dimension and basin entropy in relativistic chaotic scattering. Physical Review E, 2018, 97, 042214.	2.1	15
22	Measuring the transition between nonhyperbolic and hyperbolic regimes in open Hamiltonian systems. Nonlinear Dynamics, 2020, 99, 3029-3039.	5.2	15
23	Weakly noisy chaotic scattering. Physical Review E, 2013, 88, 032914.	2.1	14
24	Destruction of solid tumors by immune cells. Communications in Nonlinear Science and Numerical Simulation, 2017, 44, 390-403.	3.3	13
25	Decay Dynamics of Tumors. PLoS ONE, 2016, 11, e0157689.	2.5	12
26	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
27	Stochastic resonance in dissipative drift motion. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 62-69.	3.3	11
28	Effects of periodic forcing in chaotic scattering. Physical Review E, 2014, 89, 042909.	2.1	10
29	Resonant behavior and unpredictability in forced chaotic scattering. Physical Review E, 2018, 98, .	2.1	10
30	Global relativistic effects in chaotic scattering. Physical Review E, 2017, 95, 032205.	2.1	9
31	Stochastic resetting in the Kramers problem: A Monte Carlo approach. Chaos, Solitons and Fractals, 2021, 152, 111342.	5.1	9
32	The role of dose density in combination cancer chemotherapy. Communications in Nonlinear Science and Numerical Simulation, 2019, 79, 104918.	3.3	8
33	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
34	Fractional damping enhances chaos in the nonlinear Helmholtz oscillator. Nonlinear Dynamics, 2020, 102, 2323-2337.	5.2	7
35	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
36	Final state sensitivity in noisy chaotic scattering. Chaos, Solitons and Fractals, 2021, 150, 111181.	5.1	6

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37	PARTIAL CONTROL OF ESCAPES IN CHAOTIC SCATTERING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350008.	1.7	5
38	Influence of the gravitational radius on asymptotic behavior of the relativistic Sitnikov problem. Physical Review E, 2020, 102, 042204.	2.1	5
39	Transient chaos in time-delayed systems subjected to parameter drift. Journal of Physics Complexity, 2021, 2, 025001.	2.2	4
40	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
41	Ergodic decay laws in Newtonian and relativistic chaotic scattering. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 105987.	3.3	4
42	The role of noise in the tumor dynamics under chemotherapy treatment. European Physical Journal Plus, 2021, 136, 1.	2.6	4
43	Transient chaos under coordinate transformations in relativistic systems. Physical Review E, 2020, 101, 062212.	2.1	3
44	Trapping enhanced by noise in nonhyperbolic and hyperbolic chaotic scattering. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105905.	3.3	3
45	Noise activates escapes in closed Hamiltonian systems. Communications in Nonlinear Science and Numerical Simulation, 2022, 105, 106074.	3.3	3
46	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
47	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
48	Control of escapes in two-degree-of-freedom open Hamiltonian systems. Chaos, 2022, 32, 063118.	2.5	2
49	Effective suppressibility of chaos. Chaos, 2013, 23, 023107.	2.5	1
50	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
51	Weak dissipation drives and enhances Wada basins in three-dimensional chaotic scattering. Chaos, Solitons and Fractals, 2022, 156, 111891.	5.1	1
52	A mechanism explaining the metamorphoses of KAM islands in nonhyperbolic chaotic scattering. Nonlinear Dynamics, 2022, 109, 1123-1133.	5.2	1