

Hernán G. Solari

List of Publications by Year in descending order

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56
papers

1,592
citations

304743

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302126

39
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59
all docs

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docs citations

59
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stochastic Population Dynamics Model for <i>Aedes Aegypti</i> : Formulation and Application to a City with Temperate Climate. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 1945-1974.	1.9	186
2	Classification of strange attractors by integers. <i>Physical Review Letters</i> , 1990, 64, 2350-2353.	7.8	140
3	Topological analysis of chaotic time series data from the Belousov-Zhabotinskii reaction. <i>Journal of Nonlinear Science</i> , 1991, 1, 147-173.	2.1	123
4	Spontaneous symmetry breaking in a laser: The experimental side. <i>Physical Review Letters</i> , 1990, 65, 3124-3127.	7.8	100
5	A Stochastic Spatial Dynamical Model for <i>Aedes Aegypti</i> . <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1297-1325.	1.9	96
6	Relative rotation rates for driven dynamical systems. <i>Physical Review A</i> , 1988, 37, 3096-3109.	2.5	76
7	Stochastic eco-epidemiological model of dengue disease transmission by <i>Aedes aegypti</i> mosquito. <i>Mathematical Biosciences</i> , 2010, 223, 32-46.	1.9	73
8	An efficient algorithm for fast box counting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 151, 43-46.	2.1	57
9	Basins of attraction in driven dynamical systems. <i>Physical Review A</i> , 1989, 39, 2609-2627.	2.5	54
10	Semiclassical treatment of spin system by means of coherent states. <i>Journal of Mathematical Physics</i> , 1987, 28, 1097-1102.	1.1	51
11	Laser with injected signal: perturbation of an invariant circle. <i>Optics Communications</i> , 1994, 111, 173-190.	2.1	50
12	Dengue epidemics and human mobility. <i>Physical Review E</i> , 2011, 84, 011901.	2.1	44
13	Relative rotation rates: Fingerprints for strange attractors. <i>Physical Review A</i> , 1990, 41, 5717-5720.	2.5	43
14	Sustained oscillations in stochastic systems. <i>Mathematical Biosciences</i> , 2001, 169, 15-25.	1.9	42
15	Population Dynamics: Poisson Approximation and Its Relation to the Langevin Process. <i>Physical Review Letters</i> , 2001, 86, 4183-4186.	7.8	37
16	Modeling dengue outbreaks. <i>Mathematical Biosciences</i> , 2011, 232, 87-95.	1.9	31
17	Modeling the complex hatching and development of <i>Aedes aegypti</i> in temperate climates. <i>Ecological Modelling</i> , 2013, 253, 44-55.	2.5	28
18	Organization of periodic orbits in the driven Duffing oscillator. <i>Physical Review A</i> , 1988, 38, 1566-1572.	2.5	27

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19	Horseshoe implications. <i>Physical Review E</i> , 1993, 48, 4297-4304.	2.1	26
20	Stochastic population dynamics: The Poisson approximation. <i>Physical Review E</i> , 2003, 67, 031918.	2.1	26
21	Sitil'nikov-saddle-node interaction near a codimension-2 bifurcation: Laser with injected signal. <i>Physica D: Nonlinear Phenomena</i> , 1997, 109, 293-314.	2.8	23
22	Global bifurcations in a laser with injected signal: Beyond Adler's approximation. <i>Chaos</i> , 2001, 11, 500-513.	2.5	22
23	Dynamics in the transverse section of the CO ₂ laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1990, 7, 828.	2.1	21
24	Quasispin dynamics beyond the Bloch sphere: Exact versus time-dependent Hartree-Fock evolution. <i>Physical Review C</i> , 1982, 26, 2310-2320.	2.9	20
25	Modelling interventions during a dengue outbreak. <i>Epidemiology and Infection</i> , 2014, 142, 545-561.	2.1	18
26	Topologically inequivalent embeddings. <i>Physical Review E</i> , 1995, 52, 1497-1502.	2.1	16
27	Interface dynamics for copper electrodeposition: The role of organic additives in the growth mode. <i>Physical Review E</i> , 2002, 66, 042601.	2.1	14
28	A model for the development of <i>Aedes (Stegomyia) aegypti</i> as a function of the available food. <i>Journal of Theoretical Biology</i> , 2015, 365, 311-324.	1.7	13
29	Dispersal of <i>Aedes aegypti</i> : field study in temperate areas using a novel method. <i>Journal of Vector Borne Diseases</i> , 2013, 50, 163-70.	0.4	13
30	Modelling population dynamics based on experimental trials with genetically modified (RIDL) mosquitoes. <i>Ecological Modelling</i> , 2020, 424, 108986.	2.5	12
31	Symmetry-conserving variational dynamics: Application to quasispin systems. <i>Physical Review C</i> , 1983, 28, 2472-2479.	2.9	10
32	Remarks on Braid Theory and the characterisation of periodic orbits. <i>Journal of Knot Theory and Its Ramifications</i> , 1994, 03, 511-529.	0.3	10
33	Modeling growth from the vapor and thermal annealing on micro- and nanopatterned substrates. <i>Physical Review E</i> , 2006, 73, 011607.	2.1	10
34	Geometry and time scales of self-consistent orbits in a modified SU(2) model. <i>Physical Review C</i> , 1986, 34, 297-302.	2.9	9
35	U(12) systematics in nuclei. <i>Physical Review C</i> , 1987, 35, 320-323.	2.9	9
36	Braids on the Poincaré section: A laser example. <i>Physical Review E</i> , 1996, 54, 3185-3195.	2.1	8

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37	Linear Processes in Stochastic Population Dynamics: Theory and Application to Insect Development. Scientific World Journal, The, 2014, 2014, 1-15.	2.1	8
38	Competition and coexistence in host-parasite systems: the myxomatosis case. Population Ecology, 2004, 46, 71.	1.2	7
39	Minimal Periodic Orbit Structure of 2-Dimensional Homeomorphisms. Journal of Nonlinear Science, 2005, 15, 183-222.	2.1	5
40	Pattern preserving deposition: Experimental results and modeling. Applied Physics Letters, 2005, 87, 123104.	3.3	5
41	Probing universality classes in solid-on-solid deposition. Physical Review E, 2004, 70, 011605.	2.1	4
42	Possibility of dynamical symmetry restoration in the Gaussian overlap approximation. Physical Review C, 1985, 32, 462-470.	2.9	3
43	Dynamics of solid growth under a gravitational field: Influence of the formation of a diffusive layer. Physical Review E, 2003, 67, 061605.	2.1	3
44	Blowing-up of deterministic fixed points in stochastic population dynamics. Mathematical Biosciences, 2007, 209, 319-335.	1.9	3
45	A Constructivist View of Newton's Mechanics. Foundations of Science, 2019, 24, 307-341.	0.7	3
46	Stochastic model for COVID-19 in slums: interaction between biology and public policies. Epidemiology and Infection, 2021, 149, .	2.1	3
47	A mathematically assisted reconstruction of the initial focus of the yellow fever outbreak in Buenos Aires (1871). Papers in Physics, 2013, 5, .	0.2	3
48	Study of symmetry-breaking in TDHF calculations. Zeitschrift für Physik A, 1985, 321, 155-160.	1.4	2
49	Multinomial approximation to the Kolmogorov Forward Equation for jump (population) processes. Cogent Mathematics & Statistics, 2018, 5, 1556192.	0.9	2
50	Algebraic description of the quantum defect. Foundations of Physics, 1993, 23, 873-879.	1.3	1
51	Stochastic population model of Zea mays L.. Mathematical Biosciences, 2019, 312, 88-96.	1.9	1
52	Science, Dualities and the Phenomenological Map. Foundations of Science, 0, , .	0.7	1
53	Irreversible dynamics of quasispin systems. Physical Review C, 1982, 25, 2087-2096.	2.9	0
54	The topological reconstruction of forced oscillators. Chaos, Solitons and Fractals, 2009, 42, 2023-2034.	5.1	0

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55	Relative Rotation Rates for Driven Dynamical Systems. NATO ASI Series Series B: Physics, 1989, , 261-263.	0.2	0
56	Comments on the topological organization of 3d-flows and 2d-maps. , 1993, , 69-76.		0