

# Hernán G. Solari

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,592  
citations

304743

22  
h-index

302126

39  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1131  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Stochastic model for COVID-19 in slums: interaction between biology and public policies. <i>Epidemiology and Infection</i> , 2021, 149, .  | 2.1 | 3         |
| 2  | Modelling population dynamics based on experimental trials with genetically modified (RIDL) mosquitoes. <i>Ecological Modelling</i> , 2020, 424, 108986.                                       | 2.5 | 12        |
| 3  | Stochastic population model of <i>Zea mays</i> L.. <i>Mathematical Biosciences</i> , 2019, 312, 88-96.   | 1.9 | 1         |
| 4  | A Constructivist View of Newton's Mechanics. <i>Foundations of Science</i> , 2019, 24, 307-341.  | 0.7 | 3         |
| 5  | Multinomial approximation to the Kolmogorov Forward Equation for jump (population) processes. <i>Cogent Mathematics &amp; Statistics</i> , 2018, 5, 1556192.                                   | 0.9 | 2         |
| 6  | 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        |
| 7  | Linear Processes in Stochastic Population Dynamics: Theory and Application to Insect Development. <i>Scientific World Journal</i> , The, 2014, 2014, 1-15.                                     | 2.1 | 8         |
| 8  | Modelling interventions during a dengue outbreak. <i>Epidemiology and Infection</i> , 2014, 142, 545-561.  | 2.1 | 18        |
| 9  | 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        |
| 10 | A mathematically assisted reconstruction of the initial focus of the yellow fever outbreak in Buenos Aires (1871). <i>Papers in Physics</i> , 2013, 5, .                                       | 0.2 | 3         |
| 11 | 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        |
| 12 | Modeling dengue outbreaks. <i>Mathematical Biosciences</i> , 2011, 232, 87-95.   | 1.9 | 31        |
| 13 | Dengue epidemics and human mobility. <i>Physical Review E</i> , 2011, 84, 011901.  | 2.1 | 44        |
| 14 | 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        |
| 15 | The topological reconstruction of forced oscillators. <i>Chaos, Solitons and Fractals</i> , 2009, 42, 2023-2034.   | 5.1 | 0         |
| 16 | A Stochastic Spatial Dynamical Model for <i>Aedes Aegypti</i> . <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1297-1325.   | 1.9 | 96        |
| 17 | Blowing-up of deterministic fixed points in stochastic population dynamics. <i>Mathematical Biosciences</i> , 2007, 209, 319-335.  | 1.9 | 3         |
| 18 | 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       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Modeling growth from the vapor and thermal annealing on micro- and nanopatterned substrates. <i>Physical Review E</i> , 2006, 73, 011607.                   | 2.1 | 10        |
| 20 | Minimal Periodic Orbit Structure of 2-Dimensional Homeomorphisms. <i>Journal of Nonlinear Science</i> , 2005, 15, 183-222.                                  | 2.1 | 5         |
| 21 | Pattern preserving deposition: Experimental results and modeling. <i>Applied Physics Letters</i> , 2005, 87, 123104.  | 3.3 | 5         |
| 22 | Probing universality classes in solid-on-solid deposition. <i>Physical Review E</i> , 2004, 70, 011605.   | 2.1 | 4         |
| 23 | Competition and coexistence in host-parasite systems: the myxomatosis case. <i>Population Ecology</i> , 2004, 46, 71.                                       | 1.2 | 7         |
| 24 | Stochastic population dynamics: The Poisson approximation. <i>Physical Review E</i> , 2003, 67, 031918.   | 2.1 | 26        |
| 25 | Dynamics of solid growth under a gravitational field: Influence of the formation of a diffusive layer. <i>Physical Review E</i> , 2003, 67, 061605.         | 2.1 | 3         |
| 26 | 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        |
| 27 | Sustained oscillations in stochastic systems. <i>Mathematical Biosciences</i> , 2001, 169, 15-25.   | 1.9 | 42        |
| 28 | Population Dynamics: Poisson Approximation and Its Relation to the Langevin Process. <i>Physical Review Letters</i> , 2001, 86, 4183-4186.                  | 7.8 | 37        |
| 29 | Global bifurcations in a laser with injected signal: Beyond Adler's approximation. <i>Chaos</i> , 2001, 11, 500-513.  | 2.5 | 22        |
| 30 | Sil'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        |
| 31 | Braids on the Poincaré section: A laser example. <i>Physical Review E</i> , 1996, 54, 3185-3195.  | 2.1 | 8         |
| 32 | Topologically inequivalent embeddings. <i>Physical Review E</i> , 1995, 52, 1497-1502.  | 2.1 | 16        |
| 33 | 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        |
| 34 | Laser with injected signal: perturbation of an invariant circle. <i>Optics Communications</i> , 1994, 111, 173-190.   | 2.1 | 50        |
| 35 | Algebraic description of the quantum defect. <i>Foundations of Physics</i> , 1993, 23, 873-879.   | 1.3 | 1         |
| 36 | Horseshoe implications. <i>Physical Review E</i> , 1993, 48, 4297-4304.   | 2.1 | 26        |

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|----|--|-----|-----------|
| 37 | Comments on the topological organization of 3d-flows and 2d-maps. , 1993, , 69-76.   |     | 0         |
| 38 | Topological analysis of chaotic time series data from the Belousov-Zhabotinskii reaction. Journal of Nonlinear Science, 1991, 1, 147-173.    | 2.1 | 123       |
| 39 | An efficient algorithm for fast box counting. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 151, 43-46.         | 2.1 | 57        |
| 40 | Relative rotation rates: Fingerprints for strange attractors. Physical Review A, 1990, 41, 5717-5720.  | 2.5 | 43        |
| 41 | Spontaneous symmetry breaking in a laser: The experimental side. Physical Review Letters, 1990, 65, 3124-3127.                               | 7.8 | 100       |
| 42 | Classification of strange attractors by integers. Physical Review Letters, 1990, 64, 2350-2353.  | 7.8 | 140       |
| 43 | Dynamics in the transverse section of the CO <sub>2</sub> laser. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 828. | 2.1 | 21        |
| 44 | Basins of attraction in driven dynamical systems. Physical Review A, 1989, 39, 2609-2627.  | 2.5 | 54        |
| 45 | Relative Rotation Rates for Driven Dynamical Systems. NATO ASI Series Series B: Physics, 1989, , 261-263.                                    | 0.2 | 0         |
| 46 | Organization of periodic orbits in the driven Duffing oscillator. Physical Review A, 1988, 38, 1566-1572.                                    | 2.5 | 27        |
| 47 | Relative rotation rates for driven dynamical systems. Physical Review A, 1988, 37, 3096-3109.  | 2.5 | 76        |
| 48 | U(12) systematics in nuclei. Physical Review C, 1987, 35, 320-323.   | 2.9 | 9         |
| 49 | Semiclassical treatment of spin system by means of coherent states. Journal of Mathematical Physics, 1987, 28, 1097-1102.                    | 1.1 | 51        |
| 50 | Geometry and time scales of self-consistent orbits in a modified SU(2) model. Physical Review C, 1986, 34, 297-302.                          | 2.9 | 9         |
| 51 | Study of symmetry-breaking in TDHF calculations. Zeitschrift für Physik A, 1985, 321, 155-160.   | 1.4 | 2         |
| 52 | Possibility of dynamical symmetry restoration in the Gaussian overlap approximation. Physical Review C, 1985, 32, 462-470.                   | 2.9 | 3         |
| 53 | Symmetry-conserving variational dynamics: Application to quasispin systems. Physical Review C, 1983, 28, 2472-2479.                          | 2.9 | 10        |
| 54 | Quasispin dynamics beyond the Bloch sphere: Exact versus time-dependent Hartree-Fock evolution. Physical Review C, 1982, 26, 2310-2320.      | 2.9 | 20        |

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|----|---|-----|-----------|
| 55 | Irreversible dynamics of quasispin systems. <i>Physical Review C</i> , 1982, 25, 2087-2096. | 2.9 | 0         |
| 56 | Science, Dualities and the Phenomenological Map. <i>Foundations of Science</i> , 0, , .     | 0.7 | 1         |