

Ana Nunes

List of Publications by Year in descending order

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73
papers

1,159
citations

394421

19
h-index

454955

30
g-index

76
all docs

76
docs citations

76
times ranked

1133
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the pandemic during the SARS-CoV-2 vaccination rollout. <i>Nature Communications</i> , 2021, 12, 3674.	12.8	98
2	Recurrent epidemics in small world networks. <i>Journal of Theoretical Biology</i> , 2005, 233, 553-561.	1.7	72
3	Asymptotic behavior of the warm inflation scenario with viscous pressure. <i>Physical Review D</i> , 2006, 73, .	4.7	58
4	Stochastic fluctuations in epidemics on networks. <i>Journal of the Royal Society Interface</i> , 2008, 5, 555-566.	3.4	57
5	On the potentials yielding cosmological scaling solutions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 488, 423-427.	4.1	50
6	The folding of knotted proteins: insights from lattice simulations. <i>Physical Biology</i> , 2010, 7, 016009.	1.8	46
7	Stochastic fluctuations in the susceptible-infective-recovered model with distributed infectious periods. <i>Physical Review E</i> , 2009, 80, 021922.	2.1	43
8	Non-native interactions play an effective role in protein folding dynamics. <i>Protein Science</i> , 2010, 19, 2196-2209.	7.6	42
9	Effects of knot type in the folding of topologically complex lattice proteins. <i>Journal of Chemical Physics</i> , 2014, 141, 025101.	3.0	41
10	Epidemics in small world networks. <i>European Physical Journal B</i> , 2006, 50, 205-208.	1.5	37
11	Fluctuations and oscillations in a simple epidemic model. <i>Physical Review E</i> , 2009, 79, 041922.	2.1	34
12	Central configurations of the planar 1+N body problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1994, 60, 273-288.	1.4	30
13	Scaling solutions from interacting fluids. <i>Physical Review D</i> , 2001, 63, .	4.7	26
14	Inflation in the presence of a non-minimal coupling. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 275, 264-272.	4.1	24
15	Invariant manifolds for a class of parabolic points. <i>Nonlinearity</i> , 1992, 5, 1193-1210.	1.4	23
16	General relativity as a cosmological attractor of scalar-tensor gravity theories. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 248, 325-331.	2.1	21
17	The structure of coevolving infection networks. <i>Europhysics Letters</i> , 2012, 97, 18003.	2.0	21
18	Swinging Atwood's Machine : integrability and dynamics. <i>Journal De Physique</i> , 1990, 51, 1693-1702.	1.8	21

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19	Consecutive quasi-collisions in the planar circular RTBP. <i>Nonlinearity</i> , 2002, 15, 115-142.	1.4	20
20	Pair approximation models for disease spread. <i>European Physical Journal B</i> , 2006, 50, 177-181.	1.5	18
21	Stochastic effects in a seasonally forced epidemic model. <i>Physical Review E</i> , 2010, 82, 041906.	2.1	18
22	Hydrophobic confinement modulates thermal stability and assists knotting in the folding of tangled proteins. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11764-11775.	2.8	18
23	Impact of bistability in the synchronization of chaotic maps with delayed coupling and complex topologies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 100-103.	2.6	17
24	Stability analysis of cosmological models through Lyapunov's method. <i>Classical and Quantum Gravity</i> , 2001, 18, 1703-1713.	4.0	16
25	Evolutionary dynamics of collective action when individual fitness derives from group decisions taken in the past. <i>Journal of Theoretical Biology</i> , 2012, 298, 8-15.	1.7	16
26	Phase lag in epidemics on a network of cities. <i>Physical Review E</i> , 2012, 85, 051912.	2.1	15
27	Stochastic single-gene autoregulation. <i>Physical Review E</i> , 2012, 85, 061913.	2.1	15
28	Stochastic oscillations in models of epidemics on a network of cities. <i>Physical Review E</i> , 2011, 84, 051919.	2.1	14
29	Conformally coupled tachyonic dark energy. <i>Physical Review D</i> , 2019, 100, .	4.7	14
30	A restricted charged four-body problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1990, 47, 245-266.	1.4	13
31	Periodic orbits of transversal maps. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1995, 118, 161-181.	0.4	13
32	The GÅ•model revisited: Native structure and the geometric coupling between local and long-range contacts. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 60, 712-722.	2.6	13
33	Modelling the long-term dynamics of pre-vaccination pertussis. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2959-2970.	3.4	13
34	Cluster approximations for infection dynamics on random networks. <i>Physical Review E</i> , 2009, 80, 051915.	2.1	12
35	Periods and Lefschetz zeta functions. <i>Pacific Journal of Mathematics</i> , 1994, 165, 51-66.	0.5	12
36	Disformally coupled quintessence. <i>Physical Review D</i> , 2020, 101, .	4.7	11

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37	A note on the reducibility of linear differential equations with quasiperiodic coefficients. International Journal of Mathematics and Mathematical Sciences, 2003, 2003, 4071-4083.	0.7	10
38	Localized contacts between hosts reduce pathogen diversity. Journal of Theoretical Biology, 2006, 241, 477-487.	1.7	10
39	Periodic orbits of the integrable swinging Atwood's machine. American Journal of Physics, 1995, 63, 121-126.	0.7	9
40	KNOTS AND LINKS IN INTEGRABLE HAMILTONIAN SYSTEMS. Journal of Knot Theory and Its Ramifications, 1998, 07, 123-153.	0.3	8
41	Slow-roll inflation without fine-tuning. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 472, 21-26.	4.1	8
42	Homoclinic orbits to parabolic points. Nonlinear Differential Equations and Applications, 1997, 4, 201-216.	0.8	7
43	Phase-locking of two Andronov clocks with a general interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 107, 362-366.	2.1	6
44	Unbounded orbits of a swinging Atwood's machine. American Journal of Physics, 1988, 56, 1117-1120.	0.7	6
45	MINIMUM NUMBER OF FIXED POINTS FOR MAPS OF THE FIGURE EIGHT SPACE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 1795-1802.	1.7	6
46	A Qualitative Analysis of the Attractor Mechanism of General relativity. Astrophysics and Space Science, 2003, 283, 661-666.	1.4	6
47	Phase dynamics and particle production in preheating. Physical Review D, 2005, 71, .	4.7	6
48	A numerical study of the orbits of second species of the planar circular RTBP. Celestial Mechanics and Dynamical Astronomy, 2009, 103, 143-162.	1.4	6
49	Asymmetric coevolutionary voter dynamics. Physical Review E, 2013, 88, 062809.	2.1	6
50	Coherence thresholds in models of language change and evolution: The effects of noise, dynamics, and network of interactions. Physical Review E, 2008, 77, 046108.	2.1	5
51	SIRS Dynamics on Random Networks: Simulations and Analytical Models. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 792-797.	0.3	5
52	Infinity manifold of a swinging Atwood's machine. European Journal of Physics, 1989, 10, 173-177.	0.6	4
53	General Relativity as an Attractor to Scalar-Tensor Gravity Theories. , 1998, 261, 327-330.		4
54	Population dynamics on random networks: simulations and analytical models. European Physical Journal B, 2010, 74, 235-242.	1.5	4

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55	The effects of individual nonheritable variation on fitness estimation and coexistence. <i>Ecology and Evolution</i> , 2019, 9, 8995-9004.	1.9	4
56	Melnikov method for parabolic orbits. <i>Nonlinear Differential Equations and Applications</i> , 2003, 10, 119-131.	0.8	3
57	Reheating induced by competing decay modes. <i>Physical Review D</i> , 2008, 78, .	4.7	3
58	Detecting and describing dynamic equilibria in adaptive networks. <i>European Physical Journal: Special Topics</i> , 2012, 212, 99-113.	2.6	3
59	Heterogeneity in antibody range and the antigenic drift of influenza A viruses. <i>Ecological Complexity</i> , 2013, 14, 157-165.	2.9	3
60	Impact of commuting on disease persistence in heterogeneous metapopulations. <i>Ecological Complexity</i> , 2014, 19, 124-129.	2.9	2
61	Characterization of the endemic equilibrium and response to mutant injection in a multi-strain disease model. <i>Journal of Theoretical Biology</i> , 2015, 368, 27-36.	1.7	2
62	Host immunity and pathogen diversity: A computational study. <i>Virulence</i> , 2016, 7, 121-128.	4.4	2
63	Qualitative study of motion under the potentials. <i>Celestial Mechanics</i> , 1987, 42, 129-139.	0.1	1
64	The Set of Planar Orbits of Second Species in the RTBP. <i>Springer Proceedings in Mathematics</i> , 2011, , 359-363.	0.5	1
65	The structure of coevolving infection networks. <i>Europhysics Letters</i> , 2012, 100, 69901.	2.0	1
66	Analytic description of adaptive network topologies in a steady state. <i>Physical Review E</i> , 2015, 91, 060801.	2.1	1
67	Genericity of the non-periodic solutions of the central force problem. <i>Astrophysics and Space Science</i> , 1990, 165, 95-99.	1.4	0
68	A general model for motion bound to an impurity in an anisotropic semiconductor. <i>Physica D: Nonlinear Phenomena</i> , 1991, 48, 311-321.	2.8	0
69	Global description of the solutions of a large class of non-integrable Hamiltonians. <i>Journal of Differential Equations</i> , 1992, 100, 203-224.	2.2	0
70	Parametric resonance with multi-frequencies in preheating. , 2009, , .		0
71	Publisher's Note: Asymmetric coevolutionary voter dynamics [Phys. Rev. E 88, 062809 (2013)]. <i>Physical Review E</i> , 2014, 89, .	2.1	0
72	A Qualitative Analysis of the Attractor Mechanism of General Relativity. , 2003, , 223-228.		0

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73	Post-Inflationary Scalar Field Phase Dynamics. Springer Proceedings in Mathematics, 2011, , 243-246.	0.5	0