

Ronald F Fox

List of Publications by Year in descending order

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60
papers

2,396
citations

218381

26
h-index

197535

49
g-index

64
all docs

64
docs citations

64
times ranked

1111
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast, accurate algorithm for numerical simulation of exponentially correlated colored noise. Physical Review A, 1988, 38, 5938-5940.	1.0	370
2	Functional-calculus approach to stochastic differential equations. Physical Review A, 1986, 33, 467-476.	1.0	277
3	Emergent collective behavior in large numbers of globally coupled independently stochastic ion channels. Physical Review E, 1994, 49, 3421-3431.	0.8	256
4	Stochastic resonance in a double well. Physical Review A, 1989, 39, 4148-4153.	1.0	144
5	Steady-state analysis of strongly colored multiplicative noise in a dye laser. Physical Review A, 1987, 35, 1838-1842.	1.0	115
6	Amplification of intrinsic fluctuations by chaotic dynamics in physical systems. Physical Review A, 1991, 43, 1709-1720.	1.0	77
7	Quantum chaos and a periodically perturbed Eberly-Chirikov pendulum. Physical Review A, 1986, 34, 482-492.	1.0	65
8	Second-order algorithm for the numerical integration of colored-noise problems. Physical Review A, 1991, 43, 2649-2654.	1.0	64
9	Mean first-passage times and colored noise. Physical Review A, 1988, 37, 911-917.	1.0	61
10	Long-time tails and diffusion. Physical Review A, 1983, 27, 3216-3233.	1.0	54
11	Rectified Brownian motion and kinesin motion along microtubules. Physical Review E, 2001, 63, 051901.	0.8	53
12	Analytic and numerical study of stochastic resonance. Physical Review E, 1993, 48, 3390-3398.	0.8	44
13	Correlation time expansion for non-markovian, gaussian, stochastic processes. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 94, 281-286.	0.9	43
14	Rectified Brownian movement in molecular and cell biology. Physical Review E, 1998, 57, 2177-2203.	0.8	38
15	Stochastic theory of line shape and relaxation. Physical Review A, 1986, 34, 4286-4302.	1.0	36
16	Numerical simulations of stochastic differential equations. Journal of Statistical Physics, 1989, 54, 1353-1366.	0.5	36
17	Chaos and a quantum-classical correspondence in the kicked top. Physical Review E, 1994, 50, 2553-2563.	0.8	34
18	Stochastic calculus in physics. Journal of Statistical Physics, 1987, 46, 1145-1157.	0.5	31

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19	Chaos, molecular fluctuations, and the correspondence limit. <i>Physical Review A</i> , 1990, 41, 2969-2976.	1.0	30
20	Chaos and the quantum-classical correspondence in the kicked pendulum. <i>Physical Review E</i> , 1994, 49, 3683-3696.	0.8	30
21	Kinesin's Biased Stepping Mechanism: Amplification of Neck Linker Zippering. <i>Biophysical Journal</i> , 2006, 91, 2416-2426.	0.2	30
22	Coupled translational and rotational diffusion in liquids. <i>Journal of Mathematical Physics</i> , 1982, 23, 296-309.	0.5	27
23	Quantum chaos in a two-level system in a semiclassical radiation field. <i>Physical Review A</i> , 1986, 34, 3288-3292.	1.0	27
24	Effect of molecular fluctuations on the description of chaos by macrovariable equations. <i>Physical Review Letters</i> , 1990, 64, 249-251.	2.9	27
25	Generalized coherent states and quantum-classical correspondence. <i>Physical Review A</i> , 2000, 61, .	1.0	27
26	Systematic corrections to the rotating-wave approximation and quantum chaos. <i>Physical Review A</i> , 1987, 36, 4321-4329.	1.0	26
27	Laser-noise analysis by first-passage-time techniques. <i>Physical Review A</i> , 1986, 34, 3405-3408.	1.0	22
28	Quantum-classical correspondence and quantum chaos in the periodically kicked pendulum. <i>Physical Review A</i> , 1991, 43, 646-655.	1.0	22
29	Stochastic theory of relaxation and approach to thermal equilibrium for phonon reservoirs. <i>Physical Review A</i> , 1987, 35, 2684-2689.	1.0	21
30	Master equation for the logistic map. <i>Physical Review A</i> , 1990, 42, 1946-1953.	1.0	21
31	Chaos and the correspondence limit in the periodically kicked pendulum. <i>Physical Review A</i> , 1990, 41, 2952-2968.	1.0	19
32	Generalized coherent states. <i>Physical Review A</i> , 1999, 59, 3241-3255.	1.0	19
33	On the amplification of molecular fluctuations for nonstationary systems: hydrodynamic fluctuations for the Lorenz model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 175, 17-22.	0.9	18
34	Enhanced quantum fluctuations in a chaotic single mode ammonia laser. <i>Chaos</i> , 1994, 4, 1-13.	1.0	18
35	Generalized coherent states for systems with degenerate energy spectra. <i>Physical Review A</i> , 2001, 64, .	1.0	18
36	Construction of the Jordan basis for the Baker map. <i>Chaos</i> , 1997, 7, 254-269.	1.0	16

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37	Using nonequilibrium measurements to determine macromolecule free-energy differences. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12537-12538.	3.3	16
38	Coherent-state analysis of the quantum bouncing ball. Physical Review A, 2006, 73, .	1.0	16
39	Tests of numerical simulation algorithms for the Kubo oscillator. Journal of Statistical Physics, 1987, 47, 477-487.	0.5	15
40	Coherent states of the driven Rydberg atom: Quantum-classical correspondence of periodically driven systems. Physical Review A, 2005, 71, .	1.0	14
41	Amplification of intrinsic fluctuations by the Lorenz equations. Chaos, 1993, 3, 313-323.	1.0	12
42	The long time tail conundrum in nonequilibrium statistical mechanics. Physica A: Statistical Mechanics and Its Applications, 1983, 118, 383-394.	1.2	10
43	Reply to "Comments on the amplification of intrinsic fluctuations by chaotic dynamics". Physical Review A, 1992, 46, 3572-3573.	1.0	10
44	Entropy evolution for the Baker map. Chaos, 1998, 8, 462-465.	1.0	9
45	Unstable evolution of pointwise trajectory solutions to chaotic maps. Chaos, 1995, 5, 619-633.	1.0	8
46	Quasiadiabatic time evolution, avoided level crossings, and Berry's phase. Physical Review A, 1998, 57, 2339-2346.	1.0	8
47	Semiclassical analysis of long-wavelength multiphoton processes: The Rydberg atom. Physical Review A, 2004, 69, .	1.0	8
48	Boson operator representation of Brownian motion. Journal of Mathematical Physics, 1982, 23, 1678-1687.	0.5	7
49	Generalized coherent-state analysis of semiclassical quantum chaos for an angular momentum in a resonant cavity. Physical Review A, 1991, 44, 6193-6201.	1.0	7
50	Theoretical analysis of long-time-tail observations by light scattering off of polystyrene spheres. Physical Review A, 1984, 30, 2590-2596.	1.0	6
51	Comment on "Bistability and colored noise in nonequilibrium systems: Theory versus precise numerics". Physical Review Letters, 1989, 62, 1205-1205.	2.9	6
52	Fluctuating hydrodynamics explanation of the Alder-Wainwright velocity autocorrelation computer experiments. Journal of Chemical Physics, 1976, 64, 5307-5308.	1.2	5
53	The absorption line shape for a molecular system stochastically coupled to a phonon thermal reservoir. Journal of Chemical Physics, 1988, 88, 4579-4583.	1.2	5
54	Evolution of escape processes with a time-varying load. Physical Review E, 2002, 66, 031103.	0.8	5

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55	Hubble's Law Implies Benford's Law for Distances to Galaxies. Journal of Astrophysics and Astronomy, 2016, 37, 1.	0.4	5
56	The ideal gas and the second law of thermodynamics. American Journal of Physics, 1982, 50, 804-805.	0.3	2
57	Semiclassical analysis of long-wavelength multiphoton processes: The periodically driven harmonic oscillator. Physical Review A, 2002, 66, .	1.0	2
58	Cumulant sum rule for the Kardar-Parisi-Zhang equation. Physical Review A, 1991, 43, 3143-3145.	1.0	0
59	Quasiadiabatic analysis for ionization of a particle in a periodically perturbed $\hat{V}(x)$ potential. Physical Review E, 2002, 66, 046124.	0.8	0
60	Universal turning point behavior for Gaussian-Klauder states and an application for maximally eccentric Rydberg atoms. Physical Review A, 2006, 74, .	1.0	0