Ronald F Fox

List of Publications by Year
in descending order

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	Hubbleâ€™s Law Implies Benfordâ€™s Law for Distances to Galaxies. Journal of Astrophysics and Astronomy, 2016, 37, 1.	0.4	5
2	Kinesinâ€™s Biased Stepping Mechanism: Amplification of Neck Linker Zippering. Biophysical Journal, 2006, 91, 2416-2426.	0.2	30
3	Coherent-state analysis of the quantum bouncing ball. Physical Review A, 2006, 73, .	1.0	16
4	Universal turning point behavior for Gaussian-Klauder states and an application for maximally eccentric Rydberg atoms. Physical Review A, 2006, 74, .	1.0	0
5	Coherent states of the driven Rydberg atom: Quantum-classical correspondence of periodically driven systems. Physical Review A, 2005, 71, .	1.0	14
6	Semiclassical analysis of long-wavelength multiphoton processes: The Rydberg atom. Physical Review A, 2004, 69, .	1.0	8
7	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
8	Semiclassical analysis of long-wavelength multiphoton processes: The periodically driven harmonic oscillator. Physical Review A, 2002, 66, .	1.0	2
9	Evolution of escape processes with a time-varying load. Physical Review E, 2002, 66, 031103.	0.8	5
10	Quasiadiabatic analysis for ionization of a particle in a periodically perturbed $\delta'(x)$ potential. Physical Review E, 2002, 66, 046124.	0.8	0
11	Rectified Brownian motion and kinesin motion along microtubules. Physical Review E, 2001, 63, 051901.	0.8	53
12	Generalized coherent states for systems with degenerate energy spectra. Physical Review A, 2001, 64, .	1.0	18
13	Generalized coherent states and quantum-classical correspondence. Physical Review A, 2000, 61, .	1.0	27
14	Generalized coherent states. Physical Review A, 1999, 59, 3241-3255.	1.0	19
15	Quasiadiabatic time evolution, avoided level crossings, and Berryâ€™s phase. Physical Review A, 1998, 57, 2339-2346.	1.0	8
16	Rectified Brownian movement in molecular and cell biology. Physical Review E, 1998, 57, 2177-2203.	0.8	38
17	Entropy evolution for the Baker map. Chaos, 1998, 8, 462-465.	1.0	9
18	Construction of the Jordan basis for the Baker map. Chaos, 1997, 7, 254-269.	1.0	16

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19	Unstable evolution of pointwise trajectory solutions to chaotic maps. Chaos, 1995, 5, 619-633.	1.0	8
20	Chaos and the quantum-classical correspondence in the kicked pendulum. Physical Review E, 1994, 49, 3683-3696.	0.8	30
21	Chaos and a quantum-classical correspondence in the kicked top. Physical Review E, 1994, 50, 2553-2563.	0.8	34
22	Emergent collective behavior in large numbers of globally coupled independently stochastic ion channels. Physical Review E, 1994, 49, 3421-3431.	0.8	256
23	Enhanced quantum fluctuations in a chaotic single mode ammonia laser. Chaos, 1994, 4, 1-13.	1.0	18
24	On the amplification of molecular fluctuations for nonstationary systems: hydrodynamic fluctuations for the Lorenz model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 175, 17-22.	0.9	18
25	Analytic and numerical study of stochastic resonance. Physical Review E, 1993, 48, 3390-3398.	0.8	44
26	Amplification of intrinsic fluctuations by the Lorenz equations. Chaos, 1993, 3, 313-323.	1.0	12
27	Reply to â€˜â€˜Comments on the amplification of intrinsic fluctuations by chaotic dynamicsâ€™â€™. Physical Review A, 1992, 46, 3572-3573.	1.0	10
28	Amplification of intrinsic fluctuations by chaotic dynamics in physical systems. Physical Review A, 1991, 43, 1709-1720.	1.0	77
29	Generalized coherent-state analysis of semiclassical quantum chaos for an angular momentumJin a resonant cavity. Physical Review A, 1991, 44, 6193-6201.	1.0	7
30	Cumulant sum rule for the Kardar-Parisi-Zhang equation. Physical Review A, 1991, 43, 3143-3145.	1.0	0
31	Quantum-classical correspondence and quantum chaos in the periodically kicked pendulum. Physical Review A, 1991, 43, 646-655.	1.0	22
32	Second-order algorithm for the numerical integration of colored-noise problems. Physical Review A, 1991, 43, 2649-2654.	1.0	64
33	Chaos and the correspondence limit in the periodically kicked pendulum. Physical Review A, 1990, 41, 2952-2968.	1.0	19
34	Effect of molecular fluctuations on the description of chaos by macrovariable equations. Physical Review Letters, 1990, 64, 249-251.	2.9	27
35	Chaos, molecular fluctuations, and the correspondence limit. Physical Review A, 1990, 41, 2969-2976.	1.0	30
36	Master equation for the logistic map. Physical Review A, 1990, 42, 1946-1953.	1.0	21

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37	Comment on ''Bistability and colored noise in nonequilibrium systems: Theory versus precise numerics''. Physical Review Letters, 1989, 62, 1205-1205.	2.9	6
38	Numerical simulations of stochastic differential equations. Journal of Statistical Physics, 1989, 54, 1353-1366.	0.5	36
39	Stochastic resonance in a double well. Physical Review A, 1989, 39, 4148-4153.	1.0	144
40	Fast, accurate algorithm for numerical simulation of exponentially correlated colored noise. Physical Review A, 1988, 38, 5938-5940.	1.0	370
41	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
42	Mean first-passage times and colored noise. Physical Review A, 1988, 37, 911-917.	1.0	61
43	Systematic corrections to the rotating-wave approximation and quantum chaos. Physical Review A, 1987, 36, 4321-4329.	1.0	26
44	Steady-state analysis of strongly colored multiplicative noise in a dye laser. Physical Review A, 1987, 35, 1838-1842.	1.0	115
45	Stochastic theory of relaxation and approach to thermal equilibrium for phonon reservoirs. Physical Review A, 1987, 35, 2684-2689.	1.0	21
46	Tests of numerical simulation algorithms for the Kubo oscillator. Journal of Statistical Physics, 1987, 47, 477-487.	0.5	15
47	Stochastic calculus in physics. Journal of Statistical Physics, 1987, 46, 1145-1157.	0.5	31
48	Functional-calculus approach to stochastic differential equations. Physical Review A, 1986, 33, 467-476.	1.0	277
49	Stochastic theory of line shape and relaxation. Physical Review A, 1986, 34, 4286-4302.	1.0	36
50	Quantum chaos in a two-level system in a semiclassical radiation field. Physical Review A, 1986, 34, 3288-3292.	1.0	27
51	Quantum chaos and a periodically perturbed Eberly-Chirikov pendulum. Physical Review A, 1986, 34, 482-492.	1.0	65
52	Laser-noise analysis by first-passage-time techniques. Physical Review A, 1986, 34, 3405-3408.	1.0	22
53	Theoretical analysis of long-time-tail observations by light scattering off of polystyrene spheres. Physical Review A, 1984, 30, 2590-2596.	1.0	6
54	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

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55	The long time tail conundrum in nonequilibrium statistical mechanics. Physica A: Statistical Mechanics and Its Applications, 1983, 118, 383-394.	1.2	10
56	Long-time tails and diffusion. Physical Review A, 1983, 27, 3216-3233.	1.0	54
57	The ideal gas and the second law of thermodynamics. American Journal of Physics, 1982, 50, 804-805.	0.3	2
58	Coupled translational and rotational diffusion in liquids. Journal of Mathematical Physics, 1982, 23, 296-309.	0.5	27
59	Boson operator representation of Brownian motion. Journal of Mathematical Physics, 1982, 23, 1678-1687.	0.5	7
60	Fluctuating hydrodynamics explanation of the Alderâ€"Wainwright velocity autocorrelation computer experiments. Journal of Chemical Physics, 1976, 64, 5307-5308.	1.2	5