List of Publications by Year
in descending order

235 papers	6,165 citations	81434 41 h-index	124990 64 g-index
242 all docs	242 docs citations	242 times ranked	2921 citing authors

#	Article	IF	Citations
1	Caputo Fractional Derivative and Quantum-Like Coherence. Entropy, 2021, 23, 211.	1.1	3
2	Biophotons and Emergence of Quantum Coherence—A Diffusion Entropy Analysis. Entropy, 2021, 23, 554.	1.1	8
3	Approaching Bounded Rationality: From Quantum Probability to Criticality. Entropy, 2021, 23, 745.	1.1	6
4	Crucial Development: Criticality Is Important to Cell-to-Cell Communication and Information Transfer in Living Systems. Entropy, 2021, 23, 1141.	1.1	1
5	Complex Periodicity and Synchronization. Frontiers in Physiology, 2020, 11, 563068.	1.3	4
6	Interacting faults in california and hindu kush. Chaos, Solitons and Fractals, 2020, 139, 110070.	2.5	3
7	On the dynamical foundation of multifractality. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 124038.	1.2	7
8	Diffusion Entropy vs. Multiscale and Rényi Entropy to Detect Progression of Autonomic Neuropathy. Frontiers in Physiology, 2020, 11, 607324.	1.3	16
9	Entropic Approach to the Detection of Crucial Events. Entropy, 2019, 21, 178.	1.1	18
10	Bridging Waves and Crucial Events in the Dynamics of the Brain. Frontiers in Physiology, 2018, 9, 1174.	1.3	14
11	Self-Organized Temporal Criticality: Bottom-Up Resilience versus Top-Down Vulnerability. Complexity, 2018, 2018, 1-10.	0.9	12
12	Meditation-Induced Coherence and Crucial Events. Frontiers in Physiology, 2018, 9, 626.	1.3	10
13	Evolutionary game theory and criticality. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 015101.	0.7	11
14	Non-Poisson renewal events and memory. Physical Review E, 2017, 96, 042112.	0.8	3
15	Neuronal avalanches: Where temporal complexity and criticality meet. European Physical Journal E, 2017, 40, 101.	0.7	5
16	Crucial events, randomness, and multifractality in heartbeats. Physical Review E, 2017, 96, 062216.	0.8	24
17	Self-organizing Complex Networks: individual versus global rules. Frontiers in Physiology, 2017, 8, 478.	1.3	45
18	Ergodicity breaking and localization. Physical Review E, 2016, 94, 012136.	0.8	10

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19	Nonergodic complexity management. Physical Review E, 2016, 93, 062301.	0.8	10
20	Cardioprotection and thyroid hormones. Heart Failure Reviews, 2016, 21, 391-399.	1.7	42
21	From Neural and Social Cooperation to the Global Emergence of Cognition. Frontiers in Bioengineering and Biotechnology, 2015, 3, 78.	2.0	13
22	Complexity matching in neural networks. New Journal of Physics, 2015, 17, 015003.	1.2	21
23	Fractional calculus ties the microscopic and macroscopic scales of complex network dynamics. New Journal of Physics, 2015, 17, 045009.	1.2	21
24	Networks of Echoes. , 2014, , .		27
25	Transmission of information at criticality. Physica A: Statistical Mechanics and Its Applications, 2014, 416, 430-438.	1.2	26
26	Effect of noise and detector sensitivity on a dynamical process: Inverse power law and Mittag-Leffler interevent time survival probabilities. Physical Review E, 2014, 89, 022107.	0.8	5
27	Criticality and Crowds. , 2014, , 113-168.		0
28	A Model of Decision Making. , 2014, , 65-112.		0
29	Complexity Primer. , 2014, , 27-64.		0
30	Networking Perspective. , 2014, , 1-25.		0
31	Critical Networks. , 2014, , 199-215.		0
32	Networks of Influence. , 2014, , 169-198.		3
33	Collective behavior and evolutionary games â€" An introduction. Chaos, Solitons and Fractals, 2013, 56, 1-5.	2.5	146
34	Comments on â€œPhysiological time: A hypothesisâ€• Physics of Life Reviews, 2013, 10, 225-226.	1.5	1
35	Criticality and avalanches in neural networks. Chaos, Solitons and Fractals, 2013, 55, 80-94.	2.5	34
36	Time to consensus. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2302-2310.	1.2	5

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37	Role of committed minorities in times of crisis. Scientific Reports, 2013, 3, 1371.	1.6	29
38	Complexity and the Fractional Calculus. Advances in Mathematical Physics, 2013, 2013, 1-7.	0.4	32
39	Networking of psychophysics, psychology, and neurophysiology. Frontiers in Physiology, 2012, 3, 423.	1.3	2
40	From Self-Organized to Extended Criticality. Frontiers in Physiology, 2012, 3, 98.	1.3	28
41	Linear response at criticality. Physical Review E, 2012, 86, 041145.	0.8	8
42	Noise-induced intermittency of a reflexive model with symmetry-induced equilibrium manifold. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5900-5907.	1.2	2
43	Cooperation in neural systems: Bridging complexity and periodicity. Physical Review E, 2012, 86, 051918.	0.8	17
44	Cooperation-Induced Topological Complexity: A Promising Road to Fault Tolerance and Hebbian Learning. Frontiers in Physiology, 2012, 3, 52.	1.3	21
45	A new measure of network efficiency. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1894-1899.	1.2	6
46	Transmission of information between complex systems: $1/f$ resonance. Physical Review E, 2011, 83, 051130.	0.8	57
47	Temporal complexity of the order parameter at the phase transition. Physical Review E, 2011, 83, 061142.	0.8	50
48	Criticality and Transmission of Information in a Swarm of Cooperative Units. Physical Review Letters, 2011, 107, 078103.	2.9	59
49	The dynamics of EEG entropy. Journal of Biological Physics, 2010, 36, 185-196.	0.7	36
50	Density approach to ballistic anomalous diffusion: An exact analytical treatment. Journal of Mathematical Physics, 2010, 51, 043303.	0.5	15
51	Beyond the Death of Linear Response:$1/f$Optimal Information Transport. Physical Review Letters, 2010, 105, 040601.	2.9	51
52	The Living Matter Way to exchange information. Medical Hypotheses, 2010, 75, 475-478.	0.8	12
53	Complexity and synchronization. Physical Review E, 2009, 80, 021110.	0.8	62
54	Spontaneous brain activity as a source of ideal $1/f$ noise. Physical Review E, 2009, 80, 061914.	0.8	100

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55	Experimental Quenching of Harmonic Stimuli: Universality of Linear Response Theory. Physical Review Letters, 2009, 103, 030602.	2.9	33
56	From power law intermittence to macroscopic coherent regime. Journal of Chemical Physics, 2009, 130, 244106.	1.2	4
57	A theory of noise in human cognition. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4192-4204.	1.2	72
58	Subordination to periodic processes and synchronization. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2727-2740.	1.2	12
59	Ergodicity breakdown and scaling from single sequences. Chaos, Solitons and Fractals, 2009, 39, 895-909.	2.5	10
60	Superstatistics and renewal critical events. Open Physics, 2009, 7, .	0.8	11
61	Non-Markovian nonstationary completely positive open-quantum-system dynamics. Physical Review A, 2009, 80, .	1.0	29
62	Event-Driven Power-Law Relaxation in Weak Turbulence. Physical Review Letters, 2009, 102, 014502.	2.9	53
63	Perturbation-induced emergence of Poisson-like behavior in non-Poisson systems. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01013.	0.9	14
64	Event-driven power-law relaxation in weak turbulence: A liquid crystals mesoscopic experiment bridging quantum dots and the integration theory for the brain. Journal of Physics: Conference Series, 2009, 174, 012070.	0.3	1
65	Music, New Aesthetic and Complexity. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 2212-2221.	0.2	0
66	Maximizing information exchange between complex networks. Physics Reports, 2008, 468, 1-99.	10.3	211
67	The rate matching effect: A hidden property of aperiodic stochastic resonance. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2608-2613.	0.9	10
68	Renewal aging as emerging property of phase synchronization. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1387-1392.	1.2	53
69	RENEWAL AGING IN NON-HOMOGENEOUS POISSON PROCESSES WITH PERIODIC RATE MODULATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2681-2691.	0.7	11
70	Power spectra for both interrupted and perennial aging processes. Journal of Chemical Physics, 2008, 129, 184102.	1.2	42
71	Fluctuation-Dissipation Theorem for Event-Dominated Processes. Physical Review Letters, 2007, 99, 010603.	2.9	50
72	Brain, music, and non-Poisson renewal processes. Physical Review E, 2007, 75, 061911.	0.8	54

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73	Nonlinear Effects in Molecular Dynamics of the Liquid State. Advances in Chemical Physics, 2007, , 225-275.	0.3	9
74	Dynamical Properties of Hydrogen-Bonded Liquids. Advances in Chemical Physics, 2007, , 277-320.	0.3	42
75	Slow Motion EPR Spectra in Terms of a Generalized Langevin Equation. Advances in Chemical Physics, 2007, , 321-388.	0.3	16
76	Basic Description of the Rules Leading to the Adiabatic Elimination of Fast Variables. Advances in Chemical Physics, 2007, , 29-80.	0.3	22
77	A fluctuating environment as a source of periodic modulation. Chemical Physics Letters, 2007, 438, 336-340.	1.2	18
78	In search of a theory of complexity: An overview on the Denton workshop. Chaos, Solitons and Fractals, 2007, 34, 3-10.	2.5	3
79	From the trajectory to the density memory. Chaos, Solitons and Fractals, 2007, 34, 19-32.	2.5	13
80	Aging in financial market. Chaos, Solitons and Fractals, 2007, 34, 41-50.	2.5	4
81	Periodic trend and fluctuations: The case of strong correlation. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 157-170.	1.2	21
82	Renewal, modulation, and superstatistics in times series. Physical Review E, 2006, 73, 046136.	0.8	41
83	Non-Poisson processes: regression to equilibrium versus equilibrium correlation functions. Physica A: Statistical Mechanics and Its Applications, 2005, 347, 268-288.	1.2	3
84	Linear Response to Perturbation of Nonexponential Renewal Processes. Physical Review Letters, 2005, 95, 220601.	2.9	47
85	Fluorescence intermittency in blinking quantum dots: Renewal or slow modulation?. Journal of Chemical Physics, 2005, 123, 174704.	1.2	54
86	Correlation function and generalized master equation of arbitrary age. Physical Review E, 2005, 71, 066109.	0.8	42
87	Absorption and Emission in the Non-Poissonian Case. Physical Review Letters, 2004, 93, 050601.	2.9	24
88	Aging and rejuvenation with fractional derivatives. Physical Review E, 2004, 70, 036105.	0.8	23
89	Non-Poisson dichotomous noise: Higher-order correlation functions and aging. Physical Review E, 2004, 70, 046118.	0.8	19
90	Solar turbulence in earth's global and regional temperature anomalies. Physical Review E, 2004, 69, 026303.	0.8	34

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91	From knowledge, knowability and the search for objective randomness to a new vision of complexity. Chaos, Solitons and Fractals, 2004, 20, 11-32.	2.5	17
92	Intermittency and scale-free networks: a dynamical model for human language complexity. Chaos, Solitons and Fractals, 2004, 20, 95-105.	2.5	41
93	Non-Poisson distribution of the time distances between two consecutive clusters of earthquakes. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 201-205.	1.2	4
94	Decoherence, wave function collapses and non-ordinary statistical mechanics. Chaos, Solitons and Fractals, 2003, 17, 601-608.	2.5	11
95	Generalized master equation via aging continuous-time random walks. Physical Review E, 2003, 68, 056123.	0.8	52
96	Vortex dynamics in evolutive flows: A weakly chaotic phenomenon. Physical Review E, 2003, 68, 026126.	0.8	10
97	Power-Law Time Distribution of Large Earthquakes. Physical Review Letters, 2003, 90, 188501.	2.9	125
98	Physics of Fractal Operators. Institute for Nonlinear Science, 2003, , .	0.2	469
99	Nondifferentiable Processes. Institute for Nonlinear Science, 2003, , 1-35.	0.2	1
100	Fractional Randomness. Institute for Nonlinear Science, 2003, , 185-234.	0.2	1
101	The Ant in the Gurge Metaphor. Institute for Nonlinear Science, 2003, , 305-331.	0.2	0
102	Scaling detection in time series: Diffusion entropy analysis. Physical Review E, 2002, 66, 036130.	0.8	125
103	Lévy scaling: The diffusion entropy analysis applied to DNA sequences. Physical Review E, 2002, 66, 031906.	0.8	51
104	Diffusion entropy and waiting time statistics of hard-x-ray solar flares. Physical Review E, 2002, 65, 046203.	0.8	59
105	Dynamic versus thermodynamic approach to non-canonical equilibrium. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 89-98.	1.2	3
106	Lévy statistics in coding and non-coding nucleotide sequences. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 565-570.	0.9	17
107	Short-and Long-Term Statistical Properties of Heartbeat Time-Series in Healthy and Pathological Subjects. Lecture Notes in Computer Science, 2002, , 115-126.	1.0	3
108	Quantum measurement and entropy production. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 49-54.	0.9	12

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109	The complexity of the logistic map at the chaos threshold. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 81-87.	0.9	10
110	Sporadic randomness, Maxwell's Demon and the Poincaré recurrence times. Chaos, Solitons and Fractals, 2001, 12, 2023-2038.	2.5	10
111	THE THERMODYNAMICS OF SOCIAL PROCESSES: THE TEEN BIRTH PHENOMENON. Fractals, 2001, 09, 193-208.	1.8	76
112	ASYMMETRIC ANOMALOUS DIFFUSION: AN EFFICIENT WAY TO DETECT MEMORY IN TIME SERIES. Fractals, 2001, 09, 439-449.	1.8	102
113	Sporadic randomness: The transition from the stationary to the nonstationary condition. Physical Review E, 2001, 64, 026210.	0.8	34
114	Canonical and noncanonical equilibrium distribution. Physical Review E, 2001, 64, 011107.	0.8	12
115	Non-extensive thermodynamics and stationary processes of localization. Chaos, Solitons and Fractals, 2000, 11, 2361-2369.	2.5	3
116	Stochastic versus dynamic approach to Lévy statistics in the presence of an external perturbation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 269, 31-39.	0.9	15
117	Non-normal Statistics of DNA Sequences of Prokaryotes. Journal of Biological Physics, 2000, 26, 17-25.	0.7	1
118	Fluctuation-dissipation process without a time scale. Physical Review E, 2000, 61, 4801-4808.	0.8	15
119	Anomalous diffusion associated with nonlinear fractional derivative Fokker-Planck-like equation: Exact time-dependent solutions. Physical Review E, 2000, 62, 2213-2218.	0.8	109
120	Dynamic Approach to the Thermodynamics of Superdiffusion. Physical Review Letters, 1999, 82, 3383-3387.	2.9	59
121	Lévy diffusion as an effect of sporadic randomness. Physical Review E, 1999, 60, 6435-6442.	0.8	22
122	The Markov approximation revisited: Inconsistency of the standard quantum Brownian motion model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 252, 115-124.	0.9	3
123	On the time evolution of the entropic index. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 263, 323-330.	0.9	13
124	A non extensive approach to the entropy of symbolic sequences. Physica A: Statistical Mechanics and Its Applications, 1999, 268, 214-224.	1.2	39
125	Rescaling prescriptions: On the conflict between Hurst's analysis and the second moment prediction. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 237-244.	0.9	7
126	Master equation, Anderson localization and statistical mechanics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 238, 169-178.	0.9	4

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127	Chaos, thermodynamics and quantum mechanics: an application to celestial dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 249, 248-258.	0.9	6
128	Fractional Brownian motion as a nonstationary process: An alternative paradigm for DNA sequences. Physical Review E, 1998, 57, 4558-4567.	0.8	35
129	Tunneling rate fluctuations induced by nonlinear resonances: A quantitative treatment based on semiclassical arguments. Physical Review E, 1998, 58, 5689-5692.	0.8	29
130	Non-Gaussian statistics of anomalous diffusion: The DNA sequences of prokaryotes. Physical Review E, 1998, 58, 3640-3648.	0.8	19
131	Fractal Dimensions in Tunneling Processes and Effects of Environmental Fluctuations. Fractals, 1998, 06, 59-66.	1.8	0
132	Comment on â€œQuantum suppression of chaos in the spin-boson modelâ€. Physical Review E, 1997, 56, 2325-2328.	0.8	0
133	Fractional diffusion and LÃ©vy stable processes. Physical Review E, 1997, 55, 99-106.	0.8	166
134	Slow motion as a thermal gradient effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 309-316.	0.9	9
135	A dynamical approach to anomalous conductivity. Journal of Statistical Physics, 1996, 84, 1043-1066.	0.5	1
136	A dynamical approach to DNA sequences. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 217-222.	0.9	21
137	Wave-function collapse and objective randomness. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 224, 31-38.	0.9	5
138	Linear Response of Hamiltonian Chaotic Systems as a Function of the Number of Degrees of Freedom. Physical Review Letters, 1996, 77, 1258-1261.	2.9	17
139	Anomalous diffusion and environment-induced quantum decoherence. Physical Review A, 1996, 54, 112-118.	1.0	19
140	Site correlation, anomalous diffusion, and enhancement of the localization length. Physical Review B, 1996, 54, 11899-11902.	1.1	4
141	Dynamical approach to LÃ©vy processes. Physical Review E, 1996, 54, 4760-4767.	0.8	70
142	Influence of the environment on anomalous diffusion. Physical Review E, 1995, 51, 212-219.	0.8	34
143	Comment on â€œQuantum Chaos in the Born-Oppenheimer Approximationâ€. Physical Review Letters, 1995, 74, 1484-1484.	2.9	6
144	From dynamics to thermodynamics: Linear response and statistical mechanics. Physical Review E, 1995, 51, 3002-3022.	0.8	53

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145	Noise-induced transition from anomalous to ordinary diffusion: The crossover time as a function of noise intensity. Physical Review E, 1995, 52, 5910-5917.	0.8	22
146	Anomalous diffusion and the correspondence principle. Physical Review E, 1995, 51, 5524-5534.	0.8	23
147	Chaos and thermal conductivity. Physical Review E, 1995, 52, 6881-6884.	0.8	4
148	Anomalous diffusion, spontaneous localizations and the correspondence principle. , 1995, , 101-119.		2
149	A DYNAMICAL APPROACH TO FRACTIONAL BROWNIAN MOTION. Fractals, 1994, 02, 81-94.	1.8	32
150	Chaos and linear response: Analysis of the short-, intermediate-, and long-time regime. Physical Review E, 1994, 50, 2630-2638.	0.8	22
151	Wave-function collapse and the quantum fluctuation-dissipation process. Physical Review A, 1994, 50, 967-976.	1.0	5
152	Chaos and avoided level crossings. Physical Review E, 1994, 50, 596-599.	0.8	14
153	Control of dynamical tunneling in a bichromatically driven pendulum. Physical Review E, 1994, 50, R3299-R3302.	0.8	8
154	Probing microscopic chaotic dynamics by observing macroscopic transport processes. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 190, 447-454.	0.9	8
155	Nonlinear quantum mechanical effects: real or artefact of inaccurate approximations?. Chemical Physics, 1994, 180, 297-318.	0.9	31
156	Chaos-induced avoided level crossing and tunneling. Physical Review A, 1994, 50, 1071-1081.	1.0	37
157	Dynamical approach to anomalous diffusion: Response of Lévy processes to a perturbation. Physical Review E, 1994, 50, 2564-2579.	0.8	60
158	Tunneling versus Chaos in the Kicked Harper Model. Physical Review Letters, 1994, 73, 802-805.	2.9	51
159	Nondiffusive spreading of wave packets in the surface state electron model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 175, 104-112.	0.9	3
160	Brownian motion generated by a two-dimensional mapping. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 174, 377-383.	0.9	14
161	Standard fluctuation-dissipation process from a deterministic mapping. Physical Review E, 1993, 47, 1510-1519.	0.8	15
162	Classical-quantum correspondence in the driven surface-state-electron model. Physical Review A, 1993, 47, 4649-4662.	1.0	15

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163	Deterministic Brownian motion. Physical Review A, 1992, 45, 1249-1252.	1.0	18
164	Nonlinear and non‐Markovian fluctuation‐dissipation processes: A Fokker‐Planck treatment. Journal of Chemical Physics, 1992, 96, 6138-6148.	1.2	18
165	Semiclassical chaos, the uncertainty principle, and quantum dissipation. Physical Review A, 1992, 45, 8490-8500.	1.0	31
166	Quantum effects versus the semiclassical approximation. Physical Review A, 1992, 46, 4445-4448.	1.0	5
167	Chaos and quantum irreversibility. Journal of Statistical Physics, 1992, 68, 321-343.	0.5	3
168	Non-Gaussian statistics of simple fluids and associated liquids. Journal of Molecular Structure, 1991, 250, 119-145.	1.8	7
169	Statistical mechanics of a nonlinear relaxation process. II. Dynamical properties. Physical Review A, 1991, 44, 876-883.	1.0	4
170	Quantum irreversibility and chaos. Physical Review Letters, 1991, 67, 2593-2596.	2.9	48
171	Statistical mechanics of a nonlinear relaxation process: Equilibrium properties. Physical Review A, 1991, 43, 2624-2631.	1.0	6
172	Beyond the linear approximations of the conventional approaches to the theory of chemical relaxation. Journal of Chemical Physics, 1990, 92, 3427-3441.	1.2	14
173	Beyond the semiclassical approximation of the discrete nonlinear Schrödinger equation: Collapses and revivals as a sign of quantum fluctuations. Physical Review A, 1990, 42, 4452-4461.	1.0	23
174	Nonlinear effects in quantum dissipation. Physical Review A, 1990, 42, 7091-7106.	1.0	20
175	Resonant activation of a Brownian particle out of a potential well: Remarks on some recent theoretical and experimental investigations. Physical Review B, 1989, 39, 4722-4724.	1.1	5
176	Subdynamics, Fokker-Planck equation, and exponential decay of relaxation processes. Physical Review A, 1989, 39, 1486-1499.	1.0	47
177	Diffusion effects of hydrogen bond fluctuations. I. The long time regime of the translational and rotational diffusion of water. Journal of Chemical Physics, 1989, 91, 1179-1190.	1.2	55
178	Tsironiset al. reply. Physical Review Letters, 1989, 63, 217-217.	2.9	0
179	Threshold effects in the transport of energy from a hot to a cold oscillator: Theory with analog and digital simulation. Physical Review A, 1989, 39, 2097-2111.	1.0	6
180	Diffusion effects of hydrogen bond fluctuations. II. From the short to the long time regime in the translational dynamics of water. Journal of Chemical Physics, 1989, 91, 1191-1203.	1.2	21

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181	The projection approach to the Fokker-Planck equation. I. Colored Gaussian noise. Journal of Statistical Physics, 1988, 52, 951-978.	0.5	26
182	A Fokker–Planck equation for canonical non-Markovian systems: A local linearization approach. Journal of Chemical Physics, 1988, 89, 4300-4308.	1.2	28
183	Color-Induced Transition to a Nonconventional Diffusion Regime. Physical Review Letters, 1988, 61, 7-10.	2.9	57
184	Escape over a potential barrier in the presence of colored noise: Predictions of a local-linearization theory. Physical Review A, 1988, 38, 3749-3757.	1.0	33
185	Unitary point of view on the puzzling problem of nonlinear systems driven by colored noise. Physical Review A, 1987, 36, 441-444.	1.0	30
186	Chemical reactions in a time modulated environment: Theory, analog simulation and computer calculation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 117, 57-61.	0.9	7
187	The projection approach to the problem of colored noise. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 119, 157-162.	0.9	28
188	Theory of resonantly activated rate processes. Physical Review A, 1986, 33, 1122-1133.	1.0	15
189	Diffusional effects of the processes of escape from a potential well. Physical Review A, 1986, 33, 3404-3414.	1.0	5
190	Linear response of a nonlinear stochastic oscillator. Physical Review A, 1986, 34, 3293-3303.	1.0	13
191	The Duffing oscillator in the low-friction limit: Theory and analog simulation. Journal of Statistical Physics, 1985, 41, 553-579.	0.5	23
192	Transitions from coherent to incoherent state induced by anharmonic interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 113, 143-146.	0.9	2
193	On the breakdown of the linear response theory in the low-friction limit. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 107, 204-206.	0.9	6
194	Theory of activated reaction processes: Non-linear coupling between reactive and non-reactive modes. Chemical Physics Letters, 1985, 114, 503-506.	1.2	13
195	Spectroscopic effects of rotational inertia. Chemical Physics Letters, 1985, 116, 487-490.	1.2	2
196	Statistical linearization and noise-induced transition from the overdamped to the inertial regime. Physical Review A, 1985, 31, 3999-4001.	1.0	2
197	Classical dynamics of a coupled double-well oscillator in condensed media. III. The constraint of detailed balance and its effects on chemical reaction process. Journal of Chemical Physics, 1985, 83, 1039-1048.	1.2	22
198	Multiplicative stochastic processes in nonlinear systems. II. Canonical and noncanonical effects. Physical Review A, 1985, 32, 1150-1160.	1.0	21

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199	Multiplicative stochastic processes in nonlinear systems: Noise-induced transition from the overdamped to the inertial regime. Physical Review A, 1984, 30, 3252-3263.	1.0	33
200	Non-linear effects in rotational dynamics in the liquid state. Molecular Physics, 1984, 53, 1251-1272.	0.8	9
201	The range of validity of the current procedures of adiabatic elimination: Experimental and theoretical evidence. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 102, 95-98.	0.9	20
202	On the contraction of fast variables in stochastic processes: The influence of pumping on relaxation. European Physical Journal B, 1984, 55, 257-262.	0.6	10
203	Hydrogen bond statistics and dynamics in water: Selfâ€diffusion and dielectric relaxation. Journal of Chemical Physics, 1984, 81, 6214-6223.	1.2	19
204	The Kramers model of chemical relaxation in the presence of a radiation field. Physica A: Statistical Mechanics and Its Applications, 1983, 121, 269-285.	1.2	38
205	A â€œmicroscopicâ€•model for the dynamics of water. Chemical Physics Letters, 1983, 98, 548-553.	1.2	9
206	Decoupling effects in computer simulation of liquid-state molecular dynamics. Chemical Physics Letters, 1983, 95, 544-547.	1.2	22
207	A fruitfull field of apllication of the â€œreducedâ€•model theory: computer simulation of relaxation after strong excitation. Chemical Physics Letters, 1983, 95, 548-552.	1.2	22
208	Multiplicative stochastic processes: On the correlation time as a function of noise intensity. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 25-28.	0.9	19
209	On the extension of the Kramers theory of chemical relaxation to the case of nonwhite noise. Journal of Chemical Physics, 1983, 78, 6287-6298.	1.2	96
210	Physics, 1983, 79, 3320-3327.	1.2	24
211	Phonon thermal baths: A treatment in terms of reduced models. Physical Review B, 1982, 25, 5180-5187.	1.1	31
212	Time behaviour of non-linear stochastic processes in the presence of multiplicative noise: From Kramers' to Suzuki's decay. European Physical Journal B, 1982, 47, 353-363.	0.6	69
213	Generalized brownian motion in a double-well potential. Chemical Physics Letters, 1982, 87, 451-454.	1.2	12
214	On a fokker-planck type approach to molecular dynamics in condensed phase. Journal of Molecular Structure, 1982, 80, 401-408.	1.8	3
215	A theoretical approach to the decay of unstable states providing a correct description both of short and long time behaviour. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 88, 117-120.	0.9	18
216	A generalized Langevin equation for dealing with nonadditive fluctuations. Journal of Statistical Physics, 1982, 27, 283-316.	0.5	68

#	Article	IF	Citations
217	A generalization of mori's approach to the non-hermitean case: a new versatile theoretical tool for computational purposes. Chemical Physics Letters, 1981, 83, 554-558.	1.2	23
218	Hydrodynamics and molecular motion: A phenomenological approach. Physica A: Statistical Mechanics and Its Applications, 1981, 105, 31-52.	1.2	4
219	Brownian motion of harmonic systems with fluctuating parameters: A discussion in terms of â€œvirtualvÌŠ heat baths. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 84, 301-304.	0.9	10
220	The role of excitation in relaxation processes of nonâ€Markovian nature. Journal of Chemical Physics, 1981, 74, 1517-1518.	1.2	10
221	Role of rotational thermal bath excitation on the EPR transient regime: A theoretical discussion. Journal of Chemical Physics, 1981, 74, 235-245.	1.2	9
222	Emission spectrum in the presence of strong driving fields as a new tool for the study both of â€œintramolecularâ€•and â€œexternalâ€•relaxation processes. Chemical Physics, 1979, 38, 389-406.	0.9	27
223	A generalization of the kuboâ€"freed relaxation theory. Chemical Physics Letters, 1979, 62, 100-106.	1.2	29
224	The nonâ€Markovian relaxation process as a â€˜â€˜contractionâ€™â€™ of a multidimensional one of Markovian type. Journal of Mathematical Physics, 1979, 20, 2567-2572.	0.5	67
225	Preparation and decay of excited molecular states: the influence of dephasing relaxation and pulse fall time. Chemical Physics Letters, 1978, 58, 185-190.	1.2	7
226	Intramolecular memory effects in second-order optical processes. Chemical Physics Letters, 1978, 58, 191-195.	1.2	8
227	A â€œreducedâ€•model theory for molecular decay processes. Chemical Physics Letters, 1977, 47, 483-487.	1.2	22
228	A perturbative formalism for the spontaneous emission by excited systems. Molecular Physics, 1976, 31, 1717-1748.	0.8	29
229	Random walks and chaos. , 0, , 166-223.		0
230	Dynamics of chance. , 0, , 307-356.		0
231	Webs. , 0, , 1-44.		0
232	Continued Fractions in the Theory of Relaxation. Advances in Chemical Physics, 0, , 81-132.	0.3	13
233	Memory Function Methods in Solid State Physics. Advances in Chemical Physics, 0, , 133-181.	0.3	10
234	Molecular Dynamics: Intense External Fields. Advances in Chemical Physics, 0, , 183-223.	0.3	9

#	Article	IF	Citations
235	The Theory of Chemical Reaction Rates. Advances in Chemical Physics, 0, , 389-443.	0.3	23