

Pierre Gaspard

List of Publications by Year in descending order

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211
papers

9,857
citations

31949

53
h-index

46771

89
g-index

225
all docs

225
docs citations

225
times ranked

4041
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust transition to homochirality in complex chemical reaction networks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	1.0	4
2	Emergence of homochirality in large molecular systems. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	32
3	Comment on "Validity of path thermodynamics in reactive systems". Physical Review E, 2021, 103, 016101.	0.8	3
4	Microreversibility and driven Brownian motion with hydrodynamic long-time correlations. Physica A: Statistical Mechanics and Its Applications, 2020, 552, 121823.	1.2	4
5	Molecular theory of Langevin dynamics for active self-diffusiophoretic colloids. Journal of Chemical Physics, 2020, 153, 124104.	1.2	5
6	Stochastic approach to entropy production in chemical chaos. Chaos, 2020, 30, 113103.	1.0	5
7	Microreversibility and the statistics of currents in quantum transport. Physical Review E, 2020, 102, 022141.	0.8	3
8	Template-directed growth of copolymers. Chaos, 2020, 30, 043114.	1.0	4
9	The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001.	0.7	242
10	Microreversibility, nonequilibrium response, and Euler's polynomials. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 145002.	0.7	4
11	Microscopic approach to the macrodynamics of matter with broken symmetries. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 103203.	0.9	12
12	Counting statistics and microreversibility in stochastic models of transistors. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 103206.	0.9	7
13	Active Matter, Microreversibility, and Thermodynamics. Research, 2020, 2020, 9739231.	2.8	10
14	Multistate reversible copolymerization of non-Markovian chains under low conversion conditions. Journal of Chemical Physics, 2019, 150, 164903.	1.2	1
15	The stochastic motion of self-thermophoretic Janus particles. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 074001.	0.9	9
16	Microreversibility, fluctuations, and nonlinear transport in transistors. Physical Review E, 2019, 99, 012137.	0.8	12
17	Thermodynamics and statistical mechanics of chemically powered synthetic nanomotors. Advances in Physics: X, 2019, 4, 1602480.	1.5	19
18	From single particle motion to collective dynamics in Janus motor systems. Journal of Chemical Physics, 2019, 150, 124110.	1.2	17

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19	Microreversibility and nonequilibrium response theory in magnetic fields. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 025003.	0.7	7
20	Fluctuating chemohydrodynamics and the stochastic motion of self-diffusiophoretic particles. <i>Journal of Chemical Physics</i> , 2018, 148, 134104.	1.2	34
21	Reaction kinetics in open reactors and serial transfers between closed reactors. <i>Journal of Chemical Physics</i> , 2018, 148, 144902.	1.2	14
22	Finite-time fluctuation theorem for diffusion-influenced surface reactions on spherical and Janus catalytic particles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 123206.	0.9	4
23	Nonequilibrium thermodynamics and boundary conditions for reaction and transport in heterogeneous media. <i>Journal of Chemical Physics</i> , 2018, 148, 194114.	1.2	9
24	Stochastic approach and fluctuation theorem for charge transport in diodes. <i>Physical Review E</i> , 2018, 97, 052138.	0.8	7
25	Dynamics of Janus motors with microscopically reversible kinetics. <i>Journal of Chemical Physics</i> , 2018, 149, 024904.	1.2	18
26	Microreversibility, nonequilibrium current fluctuations, and response theory. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 355001.	0.7	14
27	Reconstructing stochastic attractors from nanoscale experiments on a non-equilibrium reaction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21302-21312.	1.3	4
28	Finite-time fluctuation theorem for diffusion-influenced surface reactions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 083206.	0.9	4
29	Kinetic theory and thermodynamics of template-directed copolymerization. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 024003.	0.9	3
30	Dynamical contribution to the heat conductivity in stochastic energy exchanges of locally confined gases. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 043210.	0.9	2
31	Iterated function systems for DNA replication. <i>Physical Review E</i> , 2017, 96, 042403.	0.8	6
32	On the Conditions for Growing Markov Chains. <i>Macromolecular Theory and Simulations</i> , 2017, 26, 1700019.	0.6	1
33	Communication: Mechanochemical fluctuation theorem and thermodynamics of self-phoretic motors. <i>Journal of Chemical Physics</i> , 2017, 147, 211101.	1.2	24
34	Template-Directed Copolymerization, Random Walks along Disordered Tracks, and Fractals. <i>Physical Review Letters</i> , 2016, 117, 238101.	2.9	16
35	Kinetics and thermodynamics of living copolymerization processes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160147.	1.6	7
36	Kinetics and thermodynamics of exonuclease-deficient DNA polymerases. <i>Physical Review E</i> , 2016, 93, 042419.	0.8	13

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37	Kinetics and thermodynamics of DNA polymerases with exonuclease proofreading. <i>Physical Review E</i> , 2016, 93, 042420.	0.8	15
38	Growth and Dissolution of Macromolecular Markov Chains. <i>Journal of Statistical Physics</i> , 2016, 164, 17-48.	0.5	10
39	Discussion on "Aperiodic Copolymers". <i>ACS Macro Letters</i> , 2016, 5, 1-3.	2.3	21
40	Thermodynamics of information processing at the molecular scale. <i>European Physical Journal: Special Topics</i> , 2015, 224, 825-838.	1.2	5
41	Fluctuation relations for equilibrium states with broken discrete or continuous symmetries. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P11018.	0.9	7
42	Scattering approach to the thermodynamics of quantum transport. <i>New Journal of Physics</i> , 2015, 17, 045001.	1.2	12
43	Force-velocity relation for copolymerization processes. <i>New Journal of Physics</i> , 2015, 17, 045016.	1.2	5
44	Fluctuating Dynamics of Nanoscale Chemical Oscillations: Theory and Experiments. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2189-2193.	2.1	19
45	Scattering theory and thermodynamics of quantum transport. <i>Annalen Der Physik</i> , 2015, 527, 663-683.	0.9	4
46	Cycles, randomness, and transport from chaotic dynamics to stochastic processes. <i>Chaos</i> , 2015, 25, 097606.	1.0	6
47	Topological Hofstadter insulators in a two-dimensional quasicrystal. <i>Physical Review B</i> , 2015, 91, .	1.1	85
48	Isometric Fluctuation Relations for Equilibrium States with Broken Symmetry. <i>Physical Review Letters</i> , 2014, 113, 240602.	2.9	20
49	Random paths and current fluctuations in nonequilibrium statistical mechanics. <i>Journal of Mathematical Physics</i> , 2014, 55, .	0.5	6
50	Kinetics and thermodynamics of first-order Markov chain copolymerization. <i>Journal of Chemical Physics</i> , 2014, 141, 044908.	1.2	32
51	Signatures of classical bifurcations in the quantum scattering resonances of dissociating molecules. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	2
52	Quantum chaotic scattering. <i>Scholarpedia Journal</i> , 2014, 9, 9806.	0.3	15
53	A trace formula for activated escape in noisy maps. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P10026.	0.9	4
54	Time-reversal symmetry relation for nonequilibrium flows ruled by the fluctuating Boltzmann equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 639-655.	1.2	6

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55	Entropy production in the quantum measurement of continuous observables. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 181-184.	0.9	5
56	Multivariate fluctuation relations for currents. <i>New Journal of Physics</i> , 2013, 15, 115014.	1.2	57
57	Time-reversal Symmetry Relations for Fluctuating Currents in Nonequilibrium Systems. <i>Acta Physica Polonica B</i> , 2013, 44, 815.	0.3	6
58	Effective fluctuation theorems for electron transport in a double quantum dot coupled to a quantum point contact. <i>Physical Review B</i> , 2013, 88, .	1.1	23
59	Information erasure in copolymers. <i>Europhysics Letters</i> , 2013, 103, 30004.	0.7	15
60	A two-stage approach to relaxation in billiard systems of locally confined hard spheres. <i>Chaos</i> , 2012, 22, 026117.	1.0	7
61	Fluctuation relations for equilibrium states with broken discrete symmetries. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P08021.	0.9	16
62	Broken \mathbb{Z}_2 symmetries and fluctuations in statistical mechanics. <i>Physica Scripta</i> , 2012, 86, 058504.	1.2	5
63	Fluctuation theorems for capacitively coupled electronic currents. <i>Physical Review B</i> , 2011, 84, .	1.1	54
64	Nonlinear transport effects in mass separation by effusion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P03024.	0.9	4
65	Electric field induced oscillations in the catalytic water production on rhodium: A theoretical analysis. <i>Surface Science</i> , 2010, 604, 1353-1368.	0.8	22
66	Non-equilibrium surface pattern formation during catalytic reactions with nanoscale resolution: Investigations of the electric field influence. <i>Catalysis Today</i> , 2010, 154, 75-84.	2.2	14
67	CHEMOMECHANICAL COUPLING AND STOCHASTIC THERMODYNAMICS OF THE F_1 -ATPase MOLECULAR MOTOR WITH AN APPLIED EXTERNAL TORQUE. <i>Biophysical Reviews and Letters</i> , 2010, 05, 163-208.	0.9	39
68	Catalytic Reduction of NO_2 with Hydrogen on Pt Field Emitter Tips: Kinetic Instabilities on the Nanoscale. <i>Langmuir</i> , 2010, 26, 16381-16391.	1.6	20
69	Noise-induced escape from bifurcating attractors: Symplectic approach in the weak-noise limit. <i>Physical Review E</i> , 2009, 80, 031147.	0.8	9
70	Fractality of the nonequilibrium stationary states of open volume-preserving systems. I. Tagged particle diffusion. <i>Physical Review E</i> , 2009, 80, 021126.	0.8	4
71	Fractality of the nonequilibrium stationary states of open volume-preserving systems. II. Galton boards. <i>Physical Review E</i> , 2009, 80, 021127.	0.8	5
72	Molecular information processing in nonequilibrium copolymerizations. <i>Journal of Chemical Physics</i> , 2009, 130, 014901.	1.2	35

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73	Heat transport in stochastic energy exchange models of locally confined hard spheres. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P08020.	0.9	10
74	Nanometric chemical clocks. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3006-3010.	3.3	50
75	Oscillations and Bistability in the Catalytic Formation of Water on Rhodium in High Electric Fields. Journal of Physical Chemistry C, 2009, 113, 17045-17058.	1.5	45
76	The fluctuation theorem for currents in open quantum systems. New Journal of Physics, 2009, 11, 043014.	1.2	167
77	Stochastic approach and fluctuation theorem for ion transport. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02057.	0.9	9
78	Field-assisted oxidation of rhodium. Chemical Physics Letters, 2008, 452, 133-138.	1.2	26
79	Heat Conduction and Fourier's Law by Consecutive Local Mixing and Thermalization. Physical Review Letters, 2008, 101, 020601.	2.9	44
80	Quantum Work Relations and Response Theory. Physical Review Letters, 2008, 100, 230404.	2.9	75
81	Dynamical randomness, information, and Landauer's principle. Europhysics Letters, 2008, 81, 28004.	1.2	12
82	On the derivation of Fourier's law in stochastic energy exchange systems. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P11021.	0.9	17
83	Fluctuation theorem and mesoscopic chemical clocks. Journal of Chemical Physics, 2008, 128, 154506.	1.2	26
84	Nonequilibrium generation of information in copolymerization processes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9516-9521.	3.3	139
85	Heat conduction and Fourier's law in a class of many particle dispersing billiards. New Journal of Physics, 2008, 10, 103004.	1.2	34
86	The fluctuation theorem for currents in semi-Markov processes. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P11007.	0.9	23
87	Thermodynamic time asymmetry in non-equilibrium fluctuations. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P01002-P01002.	0.9	36
88	Temporal disorder and fluctuation theorem in chemical reactions. Physical Review E, 2008, 77, 031137.	0.8	22
89	THERMODYNAMIC TIME ASYMMETRY AND NONEQUILIBRIUM STATISTICAL MECHANICS. , 2008, , .		2
90	Time Asymmetry in Nonequilibrium Statistical Mechanics. Advances in Chemical Physics, 2007, , 83-133.	0.3	8

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91	A fluctuation theorem for currents and non-linear response coefficients. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P02006-P02006.	0.9	122
92	Transport and Helfand moments in the Lennard-Jones fluid. I. Shear viscosity. <i>Journal of Chemical Physics</i> , 2007, 126, 184512.	1.2	41
93	Transport and Helfand moments in the Lennard-Jones fluid. II. Thermal conductivity. <i>Journal of Chemical Physics</i> , 2007, 126, 184513.	1.2	34
94	Solvent Dynamics and Rrkm Theory of Clusters. <i>Advances in Chemical Physics</i> , 2007, , 391-408.	0.3	3
95	Quantum Hall-like effect for cold atoms in non-Abelian gauge potentials. <i>Europhysics Letters</i> , 2007, 78, 60001.	0.7	23
96	Entropy Production and Time Asymmetry in Nonequilibrium Fluctuations. <i>Physical Review Letters</i> , 2007, 98, 150601.	2.9	135
97	Temporal ordering of nonequilibrium fluctuations as a corollary of the second law of thermodynamics. <i>Comptes Rendus Physique</i> , 2007, 8, 598-608.	0.3	15
98	The stochastic chemomechanics of the -ATPase molecular motor. <i>Journal of Theoretical Biology</i> , 2007, 247, 672-686.	0.8	52
99	Fluctuation Theorem for Currents and Schnakenberg Network Theory. <i>Journal of Statistical Physics</i> , 2007, 127, 107-131.	0.5	182
100	Network and thermodynamic conditions for a single macroscopic current fluctuation theorem. <i>Comptes Rendus Physique</i> , 2007, 8, 579-590.	0.3	15
101	Hamiltonian dynamics, nanosystems, and nonequilibrium statistical mechanics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 369, 201-246.	1.2	42
102	Fluctuation theorem for transport in mesoscopic systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P01011-P01011.	0.9	73
103	Field-induced CO adsorption and formation of carbonyl waves on gold nanotips. <i>Journal of Chemical Physics</i> , 2006, 125, 054704.	1.2	10
104	CO oxidation on electrically charged gold nanotips. <i>Journal of Chemical Physics</i> , 2006, 125, 214707.	1.2	11
105	Out-of-Equilibrium Nanosystems. <i>Progress of Theoretical Physics Supplement</i> , 2006, 165, 33-56.	0.2	6
106	Rotational Dynamics and Friction in Double-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2006, 97, 186106.	2.9	64
107	Fluctuation theorems and the nonequilibrium thermodynamics of molecular motors. <i>Physical Review E</i> , 2006, 74, 011906.	0.8	68
108	Translational dynamics and friction in double-walled carbon nanotubes. <i>Physical Review B</i> , 2006, 73, .	1.1	82

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109	Decoherence and kinetic processes in quantum nanosystems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 341, 435-440.	0.9	2
110	Exactly Solvable Model of Quantum Diffusion. Journal of Statistical Physics, 2005, 121, 463-496.	0.5	22
111	Entropy production in diffusion-reaction systems: The reactive random Lorentz gas. Physical Review E, 2005, 71, 036147.	0.8	6
112	Emergence of diffusion in finite quantum systems. Physical Review B, 2005, 71, .	1.1	35
113	Non-Markovian stochastic Schrödinger equations in different temperature regimes: A study of the spin-boson model. Journal of Chemical Physics, 2005, 122, 124106.	1.2	38
114	Brownian motion, dynamical randomness and irreversibility. New Journal of Physics, 2005, 7, 77-77.	1.2	31
115	Dynamical Systems Theory of Irreversibility. , 2005, , 107-157.		3
116	Dissipative quantum dynamics in terms of a reduced density matrix distributed over the environment energy. Europhysics Letters, 2004, 65, 742-748.	0.7	6
117	Fluctuation theorem and Onsager reciprocity relations. Journal of Chemical Physics, 2004, 121, 6167-6174.	1.2	159
118	Fractals and dynamical chaos in a random 2D Lorentz gas with sinks. Physica D: Nonlinear Phenomena, 2004, 187, 146-164.	1.3	5
119	Time-Reversed Dynamical Entropy and Irreversibility in Markovian Random Processes. Journal of Statistical Physics, 2004, 117, 599-615.	0.5	186
120	Fluctuation theorem for nonequilibrium reactions. Journal of Chemical Physics, 2004, 120, 8898-8905.	1.2	210
121	Methods of Calculation of a Friction Coefficient: Application to Nanotubes. Physical Review Letters, 2003, 91, 185503.	2.9	92
122	Spectral characterization of anomalous diffusion of a periodic piecewise linear intermittent map. Physica D: Nonlinear Phenomena, 2003, 183, 205-219.	1.3	2
123	Diffusive Lorentz gases and multibaker maps are compatible with irreversible thermodynamics. Physica A: Statistical Mechanics and Its Applications, 2003, 323, 294-322.	1.2	11
124	Quantum master equation for a system influencing its environment. Physical Review E, 2003, 68, 066112.	0.8	62
125	Viscosity in molecular dynamics with periodic boundary conditions. Physical Review E, 2003, 68, 041204.	0.8	24
126	Lyapunov exponent of ion motion in microplasmas. Physical Review E, 2003, 68, 056209.	0.8	21

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127	Viscosity in the escape-rate formalism. <i>Physical Review E</i> , 2003, 68, 041205.	0.8	19
128	Spin relaxation in a complex environment. <i>Physical Review E</i> , 2003, 68, 066113.	0.8	44
129	The integrated number of vibrational states in acetylene (12C2H2,13C2H2,12C2D2). <i>Molecular Physics</i> , 2003, 101, 595-601.	0.8	17
130	Nonlinear Dynamics and Chaos in Many-Particle Hamiltonian Systems. <i>Progress of Theoretical Physics Supplement</i> , 2003, 150, 64-80.	0.2	5
131	Entropy production of diffusion in spatially periodic deterministic systems. <i>Physical Review E</i> , 2002, 66, 026110.	0.8	28
132	The correlation time of mesoscopic chemical clocks. <i>Journal of Chemical Physics</i> , 2002, 117, 8905-8916.	1.2	67
133	Biochemical clocks and molecular noise: Theoretical study of robustness factors. <i>Journal of Chemical Physics</i> , 2002, 116, 10997-11010.	1.2	98
134	The fractality of the relaxation modes in reaction-diffusion systems. <i>Physica D: Nonlinear Phenomena</i> , 2002, 168-169, 266-291.	1.3	9
135	Trace Formula for Noisy Flows. <i>Journal of Statistical Physics</i> , 2002, 106, 57-96.	0.5	32
136	When Do Tracer Particles Dominate the Lyapunov Spectrum?. <i>Journal of Statistical Physics</i> , 2002, 109, 671-704.	0.5	15
137	Spectral Properties of a Piecewise Linear Intermittent Map. <i>Journal of Statistical Physics</i> , 2002, 109, 803-820.	0.5	16
138	Transport and dynamics on open quantum graphs. <i>Physical Review E</i> , 2001, 65, 016205.	0.8	32
139	Tracking a colloidal particle for the measurement of dynamic entropies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 296, 42-59.	1.2	8
140	DYNAMICAL CHAOS AND NONEQUILIBRIUM STATISTICAL MECHANICS. <i>International Journal of Modern Physics B</i> , 2001, 15, 209-235.	1.0	10
141	Fractal dimensions of the hydrodynamic modes of diffusion. <i>Nonlinearity</i> , 2001, 14, 339-358.	0.6	22
142	Liouvillian dynamics of the Hopf bifurcation. <i>Physical Review E</i> , 2001, 64, 056232.	0.8	19
143	Fractality of the Hydrodynamic Modes of Diffusion. <i>Physical Review Letters</i> , 2001, 86, 1506-1509.	2.9	41
144	Fractals and dynamical chaos in a two-dimensional Lorentz gas with sinks. <i>Physical Review E</i> , 2001, 63, 036227.	0.8	12

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145	Entropy Production and Transports in a Conservative Multibaker Map with Energy. Journal of Statistical Physics, 2000, 101, 125-144.	0.5	16
146	Microscopic Chaos and Reaction-Diffusion Processes in the Periodic Lorentz Gas. Journal of Statistical Physics, 2000, 101, 161-186.	0.5	16
147	On the Level Spacing Distribution in Quantum Graphs. Journal of Statistical Physics, 2000, 101, 283-319.	0.5	81
148	Nonlinear Schrödinger flow in a periodic potential. Physical Review E, 2000, 61, 5852-5863.	0.8	20
149	Entropy Production, Fractals, and Relaxation to Equilibrium. Physical Review Letters, 2000, 85, 1606-1609.	2.9	37
150	Vibrational time recurrences in a model of acetylene 12C2H2. Journal of Chemical Physics, 1999, 110, 5619-5633.	1.2	13
151	Slippage of initial conditions for the Redfield master equation. Journal of Chemical Physics, 1999, 111, 5668-5675.	1.2	130
152	Microscopic chaos and chemical reactions. Physica A: Statistical Mechanics and Its Applications, 1999, 263, 315-328.	1.2	59
153	Microscopic chaos from brownian motion?. Nature, 1999, 401, 876-876.	13.7	11
154	Thermodynamic behavior of an area-preserving multibaker map with energy. Theoretical Chemistry Accounts, 1999, 102, 385-396.	0.5	28
155	Non-Markovian stochastic Schrödinger equation. Journal of Chemical Physics, 1999, 111, 5676-5690.	1.2	83
156	The semiclassical regime of intramolecular vibrational dynamics. Journal of Chemical Physics, 1999, 110, 5611-5618.	1.2	4
157	Experimental evidence for microscopic chaos. Nature, 1998, 394, 865-868.	13.7	132
158	Scaled spectroscopy of and highly excited states of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 1671-1686.	0.6	16
159	Complexity in the bifurcation structure of homoclinic loops to a saddle-focus. Nonlinearity, 1997, 10, 409-423.	0.6	51
160	Resonances in the photodissociation of CO2: periodic-orbit and wavepacket analyses. Chemical Physics, 1997, 225, 259-298.	0.9	7
161	Entropy production in open volume-preserving systems. Journal of Statistical Physics, 1997, 88, 1215-1240.	0.5	71
162	Chaos and hydrodynamics. Physica A: Statistical Mechanics and Its Applications, 1997, 240, 54-67.	1.2	28

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163	Statistical approach to nonhyperbolic chaotic systems. <i>Physical Review E</i> , 1996, 54, 2474-2478.	0.8	19
164	Hydrodynamic modes as singular eigenstates of the Liouvillian dynamics: Deterministic diffusion. <i>Physical Review E</i> , 1996, 53, 4379-4401.	0.8	65
165	Fick's law and fractality of nonequilibrium stationary states in a reversible multibaker map. <i>Journal of Statistical Physics</i> , 1995, 81, 935-987.	0.5	80
166	Overtone spectroscopy and dynamics in monodeuteroacetylene (C ₂ H ₂ D). <i>Chemical Physics</i> , 1995, 190, 419-445.	0.9	54
167	Level curvatures and many-spin quantum systems. <i>Chaos, Solitons and Fractals</i> , 1995, 5, 1183-1193.	2.5	6
168	Transport properties of the Lorentz gas in terms of periodic orbits. <i>Chaos, Solitons and Fractals</i> , 1995, 6, 113-120.	2.5	27
169	Chaotic scattering and diffusion in the Lorentz gas. <i>Physical Review E</i> , 1995, 51, 5332-5352.	0.8	87
170	Chaotic scattering theory, thermodynamic formalism, and transport coefficients. <i>Physical Review E</i> , 1995, 52, 3525-3552.	0.8	137
171	Chaotic scattering theory of transport and reaction-rate coefficients. <i>Physical Review E</i> , 1995, 51, 28-35.	0.8	101
172	Spectral signature of the pitchfork bifurcation: Liouville equation approach. <i>Physical Review E</i> , 1995, 51, 74-94.	0.8	65
173	Rotational effect on the lifetime of molecular resonances. <i>Journal of Chemical Physics</i> , 1995, 102, 6727-6734.	1.2	5
174	Spectroscopy and intramolecular dynamics via molecular vibrogram analysis. <i>Journal of Chemical Physics</i> , 1995, 103, 5970-5978.	1.2	22
175	The Molecular Transition State: From Regular to Chaotic Dynamics. <i>The Journal of Physical Chemistry</i> , 1995, 99, 2732-2752.	2.9	24
176	Two-dimensional quantum spin Hamiltonians: Spectral properties. <i>Physical Review E</i> , 1994, 49, 79-98.	0.8	26
177	Molecular transition state, resonances, and periodic orbit theory. <i>Journal of Chemical Physics</i> , 1994, 100, 6395-6411.	1.2	50
178	Chaotic scattering on four-disk billiards: Semiclassical and exact quantum theories. <i>Physical Review E</i> , 1994, 50, 2591-2596.	0.8	20
179	Toward a probabilistic approach to complex systems. <i>Chaos, Solitons and Fractals</i> , 1994, 4, 41-57.	2.5	58
180	Comment on Dynamical Randomness in Quantum Systems. <i>Progress of Theoretical Physics Supplement</i> , 1994, 116, 369-378.	0.2	12

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181	Quantization of Chaos. Progress of Theoretical Physics Supplement, 1994, 116, 59-106.	0.2	8
182	Noise, chaos, and $(\hat{\mu}, \hat{\nu},)$ -entropy per unit time. Physics Reports, 1993, 235, 291-343.	10.3	188
183	Bursting oscillations from a homoclinic tangency in a time delay system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 173, 386-391.	0.9	35
184	Local birth of homoclinic chaos. Physica D: Nonlinear Phenomena, 1993, 62, 94-122.	1.3	57
185	Hydrogen negative ion: Semiclassical quantization and weak-magnetic-field effect. Physical Review A, 1993, 48, 54-69.	1.0	30
186	\hbar expansion for the periodic-orbit quantization of hyperbolic systems. Physical Review A, 1993, 47, R3468-R3471.	1.0	62
187	$\hat{\mu}$ entropy for a time series of thermal turbulence. Physical Review A, 1992, 46, R3000-R3003.	1.0	16
188	Field-theoretical model inspired by adiabatic-ansatz eigenvalue problems. Physical Review A, 1992, 46, 6311-6314.	1.0	4
189	Ruelle classical resonances and dynamical chaos: The three- and four-disk scatterers. Physical Review A, 1992, 45, 8383-8397.	1.0	68
190	The modeling of mixed-mode and chaotic oscillations in electrochemical systems. Journal of Chemical Physics, 1992, 96, 7797-7813.	1.2	81
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