

Peter Hanggi

List of Publications by Year in descending order

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656
papers

51,353
citations

2544

96
h-index

2127

203
g-index

680
all docs

680
docs citations

680
times ranked

16658
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction-rate theory: fifty years after Kramers. Reviews of Modern Physics, 1990, 62, 251-341.	45.6	5,326
2	Stochastic resonance. Reviews of Modern Physics, 1998, 70, 223-287.	45.6	5,136
3	Artificial Brownian motors: Controlling transport on the nanoscale. Reviews of Modern Physics, 2009, 81, 387-442.	45.6	1,354
4	Driven quantum tunneling. Physics Reports, 1998, 304, 229-354.	25.6	1,338
5	<i>Colloquium</i>: Phononics: Manipulating heat flow with electronic analogs and beyond. Reviews of Modern Physics, 2012, 84, 1045-1066.	45.6	1,106
6	<i>Colloquium</i>: Quantum fluctuation relations: Foundations and applications. Reviews of Modern Physics, 2011, 83, 771-791.	45.6	991
7	Coherent destruction of tunneling. Physical Review Letters, 1991, 67, 516-519.	7.8	942
8	Brownian Motors. Physics Today, 2002, 55, 33-39.	0.3	718
9	Driven quantum transport on the nanoscale. Physics Reports, 2005, 406, 379-443.	25.6	661
10	Amplification of small signals via stochastic resonance. Physical Review A, 1991, 44, 8032-8042.	2.5	586
11	Stochastic processes: Time evolution, symmetries and linear response. Physics Reports, 1982, 88, 207-319.	25.6	575
12	Fluctuation theorems: Work is not an observable. Physical Review E, 2007, 75, 050102.	2.1	560
13	Stochastic Resonance in Biology How Noise Can Enhance Detection of Weak Signals and Help Improve Biological Information Processing. ChemPhysChem, 2002, 3, 285.	2.1	521
14	Periodically Rocked Thermal Ratchets. Europhysics Letters, 1994, 28, 459-464.	2.0	412
15	Giant Acceleration of Free Diffusion by Use of Tilted Periodic Potentials. Physical Review Letters, 2001, 87, 010602.	7.8	395
16	Brownian motors. Annalen Der Physik, 2005, 14, 51-70.	2.4	363
17	Thermal conductance through molecular wires. Journal of Chemical Physics, 2003, 119, 6840-6855.	3.0	338
18	Escape from a metastable state. Journal of Statistical Physics, 1986, 42, 105-148.	1.2	325

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19	Theory of activated rate processes for arbitrary frequency dependent friction: Solution of the turnover problem. Journal of Chemical Physics, 1989, 91, 4073-4087.	3.0	323
20	Diffusion in Confined Geometries. ChemPhysChem, 2009, 10, 45-54.	2.1	303
21	Regular and Chaotic Transport in Asymmetric Periodic Potentials: Inertia Ratchets. Physical Review Letters, 1996, 76, 3436-3439.	7.8	294
22	Introduction to the physics of Brownian motors. Applied Physics A: Materials Science and Processing, 2002, 75, 169-178.	2.3	289
23	Entropic Transport: Kinetics, Scaling, and Control Mechanisms. Physical Review Letters, 2006, 96, 130603.	7.8	281
24	Stochastic resonance as a collective property of ion channel assemblies. Europhysics Letters, 2001, 56, 22-28.	2.0	275
25	Fluctuation Theorem for Arbitrary Open Quantum Systems. Physical Review Letters, 2009, 102, 210401.	7.8	273
26	Dynamical systems: A unified colored-noise approximation. Physical Review A, 1987, 35, 4464-4466.	2.5	272
27	Localization in a Driven Two-Level Dynamics. Europhysics Letters, 1992, 18, 571-576.	2.0	267
28	Quantum Ratchets. Physical Review Letters, 1997, 79, 10-13.	7.8	260
29	Stochastic Nonlinear Dynamics Modulated by External Periodic Forces. Europhysics Letters, 1989, 8, 505-510.	2.0	249
30	Diffusion in tilted periodic potentials: Enhancement, universality, and scaling. Physical Review E, 2002, 65, 031104.	2.1	241
31	Voltage Rectification by a SQUID Ratchet. Physical Review Letters, 1996, 77, 2292-2295.	7.8	240
32	Fundamental aspects of quantum Brownian motion. Chaos, 2005, 15, 026105.	2.5	221
33	Quantum Tunneling in Dissipative Systems at Finite Temperatures. Physical Review Letters, 1984, 52, 2193-2196.	7.8	213
34	Microfluidic Mixing via Acoustically Driven Chaotic Advection. Physical Review Letters, 2008, 100, 034502.	7.8	212
35	Bistability driven by colored noise: Theory and experiment. Physical Review A, 1985, 32, 695-698.	2.5	206
36	Thermally activated escape rate in presence of long-time memory. Physical Review A, 1982, 26, 1168-1170.	2.5	205

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37	Tunneling in a periodically driven bistable system. European Physical Journal B, 1991, 84, 315-325.	1.5	201
38	Bistable flow driven by coloured gaussian noise: A critical study. European Physical Journal B, 1984, 56, 333-339.	1.5	197
39	Berry-Phase-Induced Heat Pumping and Its Impact on the Fluctuation Theorem. Physical Review Letters, 2010, 104, 170601.	7.8	179
40	Relativistic Brownian motion. Physics Reports, 2009, 471, 1-73.	25.6	177
41	Correlation functions and masterequations of generalized (non-Markovian) Langevin equations. Zeitschrift für Physik B Condensed Matter and Quanta, 1978, 31, 407-416.	1.9	175
42	Brownian motors driven by temperature oscillations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 215, 26-31.	2.1	173
43	Stochastic Resonance: A remarkable idea that changed our perception of noise. European Physical Journal B, 2009, 69, 1-3.	1.5	172
44	Biased diffusion in confined media: Test of the Fick-Jacobs approximation and validity criteria. Physical Review E, 2007, 75, 051111.	2.1	167
45	Entropic Stochastic Resonance. Physical Review Letters, 2008, 101, 130602.	7.8	161
46	Floquet-Markovian description of the parametrically driven, dissipative harmonic quantum oscillator. Physical Review E, 1997, 55, 300-313.	2.1	160
47	Can colored noise improve stochastic resonance?. Journal of Statistical Physics, 1993, 70, 25-47.	1.2	159
48	Absolute Negative Mobility Induced by Thermal Equilibrium Fluctuations. Physical Review Letters, 2007, 98, 040601.	7.8	158
49	White-Noise-Induced Transport in Periodic Structures. Europhysics Letters, 1995, 31, 431-436.	2.0	156
50	Qubit-oscillator dynamics in the dispersive regime: Analytical theory beyond the rotating-wave approximation. Physical Review A, 2009, 80, .	2.5	156
51	Rates of Activated Processes with Fluctuating Barriers. Physical Review Letters, 1994, 73, 2772-2775.	7.8	155
52	Drift ratchet. Physical Review E, 2000, 61, 312-323.	2.1	155
53	Precise Numerics versus Theory for Correlation Ratchets. Physical Review Letters, 1996, 76, 1166-1169.	7.8	152
54	Bistable systems: Master equation versus Fokker-Planck modeling. Physical Review A, 1984, 29, 371-378.	2.5	150

#	ARTICLE	IF	CITATIONS
55	Giant suppression of the activation rate in the presence of correlated white noise sources. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 217, 248-252.	2.1	147
56	Aspects of quantum work. Physical Review E, 2016, 93, 022131.	2.1	147
57	Coupled Brownian motors: Anomalous hysteresis and zero-bias negative conductance. Europhysics Letters, 1999, 45, 545-551.	2.0	146
58	Molecular Wires Acting as Coherent Quantum Ratchets. Physical Review Letters, 2002, 88, 228305.	7.8	144
59	Introduction: 100years of Brownian motion. Chaos, 2005, 15, 026101.	2.5	144
60	Entropic Splitter for Particle Separation. Physical Review Letters, 2012, 108, 020604.	7.8	142
61	Brownian Motion Exhibiting Absolute Negative Mobility. Physical Review Letters, 2002, 88, 190601.	7.8	135
62	Brownian rectifiers: How to convert brownian motion into directed transport. , 1996, , 294-308.		133
63	Resonantly driven Brownian motion: Basic concepts and exact results. Physical Review A, 1990, 41, 2977-2988.	2.5	126
64	Dissipative Landau-Zener transitions of a qubit: Bath-specific and universal behavior. Physical Review B, 2007, 75, .	3.2	126
65	Rectification in synthetic conical nanopores: A one-dimensional Poisson-Nernst-Planck model. Physical Review E, 2008, 77, 031131.	2.1	126
66	Tunable transport with broken spaceâ€time symmetries. Physics Reports, 2014, 538, 77-120.	25.6	124
67	The Tasakiâ€Crooks quantum fluctuation theorem. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F569-F571.	2.1	122
68	Many-Body Coherent Destruction of Tunneling. Physical Review Letters, 2009, 103, 133002.	7.8	122
69	Gauging a Quantum Heat Bath with Dissipative Landau-Zener Transitions. Physical Review Letters, 2006, 97, 200404.	7.8	120
70	Exact results for a damped quantum-mechanical harmonic oscillator. Physical Review A, 1985, 31, 471-478.	2.5	118
71	Activation rates for nonlinear stochastic flows driven by non-Gaussian noise. Physical Review A, 1984, 30, 2730-2736.	2.5	117
72	Stochastic resonance in ion channels characterized by information theory. Physical Review E, 2000, 61, 4272-4280.	2.1	117

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73	L�vy-Brownian motion on finite intervals: Mean first passage time analysis. Physical Review E, 2006, 73, 046104.	2.1	117
74	Finite quantum dissipation: the challenge of obtaining specific heat. New Journal of Physics, 2008, 10, 115008.	2.9	116
75	Boosting work characteristics and overall heat-engine performance via shortcuts to adiabaticity: Quantum and classical systems. Physical Review E, 2013, 88, 062122.	2.1	116
76	Anomalous Heat Diffusion. Physical Review Letters, 2014, 112, 040601.	7.8	116
77	Fluctuation theorems in driven open quantum systems. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02025.	2.3	112
78	Controlling Stochastic Resonance. Physical Review Letters, 1999, 82, 4574-4577.	7.8	111
79	Effect of channel block on the spiking activity of excitable membranes in a stochastic Hodgkin-Huxley model. Physical Biology, 2004, 1, 61-66.	1.8	110
80	Current Noise in ac-Driven Nanoscale Conductors. Physical Review Letters, 2003, 90, 210602.	7.8	106
81	Coherent and Incoherent Quantum Stochastic Resonance. Physical Review Letters, 1996, 76, 1611-1614.	7.8	105
82	Quantum rectifiers from harmonic mixing. Europhysics Letters, 1998, 43, 503-509.	2.0	105
83	Surmounting Oscillating Barriers. Physical Review Letters, 2000, 84, 1639-1642.	7.8	105
84	Periodically driven quantum ratchets: Symmetries and resonances. Physical Review A, 2007, 75, .	2.5	105
85	Fluctuation Theorems for Continuously Monitored Quantum Fluxes. Physical Review Letters, 2010, 105, 140601.	7.8	105
86	Time evolution, correlations, and linear response of non-Markov processes. Zeitschrift f�r Physik B Condensed Matter and Quanta, 1977, 26, 85-92.	1.9	102
87	Fractional diffusion modeling of ion channel gating. Physical Review E, 2004, 70, 051915.	2.1	102
88	Universal equivalence of mean first-passage time and Kramers rate. Physical Review E, 1999, 60, R1-R4.	2.1	100
89	Decoherence and dissipation during a quantum XOR gate operation. Physical Review A, 2001, 65, .	2.5	100
90	The other QFT. Nature Physics, 2015, 11, 108-110.	16.7	100

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91	Brownian motors: Current fluctuations and rectification efficiency. <i>Physical Review E</i> , 2004, 70, 061105.	2.1	99
92	Entropic particle transport: Higher-order corrections to the Fick-Jacobs diffusion equation. <i>Physical Review E</i> , 2011, 83, 051135.	2.1	99
93	Escape over fluctuating barriers driven by colored noise. <i>Chemical Physics</i> , 1994, 180, 157-166.	1.9	98
94	Ion channel gating: A first-passage time analysis of the Kramers type. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3552-3556.	7.1	98
95	Incoherent tunneling in a double well. <i>Physical Review B</i> , 1987, 35, 9535-9551.	3.2	97
96	Nonlinear signal mixing in a ratchet device. <i>Europhysics Letters</i> , 2004, 67, 179-185.	2.0	97
97	Thermodynamic laws in isolated systems. <i>Physical Review E</i> , 2014, 90, 062116.	2.1	97
98	Hydrodynamic and entropic effects on colloidal diffusion in corrugated channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9564-9569.	7.1	95
99	Quantum Theory of Activated Events in Presence of Long-Time Memory. <i>Physical Review Letters</i> , 1985, 55, 761-764.	7.8	93
100	Nucleation of Thermal Sine-Gordon Solitons: Effect of Many-Body Interactions. <i>Physical Review Letters</i> , 1988, 60, 2563-2566.	7.8	93
101	Transformations of nonlinear dynamical systems to jerky motion and its application to minimal chaotic flows. <i>Physical Review E</i> , 1998, 58, 7151-7164.	2.1	93
102	Frequency and phase synchronization in stochastic systems. <i>Chaos</i> , 2003, 13, 225-238.	2.5	92
103	Entropic particle transport in periodic channels. <i>BioSystems</i> , 2008, 93, 16-22.	2.0	92
104	<i>Colloquium</i> : Statistical mechanics and thermodynamics at strong coupling: Quantum and classical. <i>Reviews of Modern Physics</i> , 2020, 92, .	45.6	92
105	Non-Markovian Stochastic Resonance. <i>Physical Review Letters</i> , 2003, 91, 070601.	7.8	91
106	Fractional Fokker-Planck dynamics: Numerical algorithm and simulations. <i>Physical Review E</i> , 2006, 73, 046133.	2.1	91
107	Thermal Equilibrium and Statistical Thermometers in Special Relativity. <i>Physical Review Letters</i> , 2007, 99, 170601.	7.8	91
108	Inertia ratchets: A numerical study versus theory. <i>Physical Review E</i> , 1999, 59, 1417-1424.	2.1	90

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109	Driven Tunnelling with Dissipation. Europhysics Letters, 1993, 22, 5-10.	2.0	89
110	Stochastic resonance in optical bistable systems. Physical Review E, 1994, 49, 3930-3939.	2.1	88
111	Driven tunneling dynamics: Bloch-Redfield theory versus path-integral approach. Physical Review E, 2000, 61, R4687-R4690.	2.1	86
112	Transport via nonlinear signal mixing in ratchet devices. Physical Review E, 2004, 70, 066109.	2.1	85
113	Specific heat anomalies of open quantum systems. Physical Review E, 2009, 79, 061105.	2.1	85
114	Nonlinear stochastic resonance: The saga of anomalous output-input gain. Physical Review E, 2000, 62, 6155-6163.	2.1	84
115	Vibrational effects in laser-driven molecular wires. Journal of Chemical Physics, 2004, 121, 2278-2288.	3.0	84
116	Spontaneous spiking in an autaptic Hodgkin-Huxley setup. Physical Review E, 2010, 82, 061907.	2.1	84
117	Non-Normalizable Densities in Strong Anomalous Diffusion: Beyond the Central Limit Theorem. Physical Review Letters, 2014, 112, 110601.	7.8	83
118	Note on time evolution of non-Markov processes. Journal of Statistical Physics, 1978, 18, 155-159.	1.2	82
119	Stochastic resonance driven by time-modulated correlated white noise sources. Physical Review E, 2000, 62, 4623-4632.	2.1	82
120	Escape driven by \pm -stable white noises. Physical Review E, 2007, 75, 021109.	2.1	82
121	Characterization of Qubit Dephasing by Landau-Zener-Stückelberg-Majorana Interferometry. Physical Review Letters, 2014, 112, 116803.	7.8	82
122	First-passage times of non-Markovian processes: The case of a reflecting boundary. Physical Review A, 1988, 38, 4213-4222.	2.5	81
123	Laser controlled molecular switches and transistors. Chemical Physics Letters, 2003, 368, 282-288.	2.6	81
124	Rectification of laser-induced electronic transport through molecules. Journal of Chemical Physics, 2003, 118, 3283-3293.	3.0	81
125	Non-Markovian Brownian dynamics and nonergodicity. Physical Review E, 2005, 72, 061107.	2.1	81
126	Use and Abuse of a Fractional Fokker-Planck Dynamics for Time-Dependent Driving. Physical Review Letters, 2007, 99, 120602.	7.8	81

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127	Microdynamics and nonlinear stochastic processes of gross variables. Journal of Statistical Physics, 1980, 22, 537-552.	1.2	80
128	Cooperative effects in the nonlinearly driven spin-boson system. Physical Review E, 1995, 52, 3596-3607.	2.1	78
129	Anticipated synchronization in coupled inertial ratchets with time-delayed feedback: A numerical study. Physical Review E, 2005, 72, 036210.	2.1	78
130	Amorphous thin-film growth: Theory compared with experiment. Europhysics Letters, 2000, 50, 61-67.	2.0	76
131	Giant enhancement of diffusion and particle selection in rocked periodic potentials. Europhysics Letters, 1998, 44, 416-422.	2.0	75
132	Amorphous thin film growth: Minimal deposition equation. Physical Review E, 2000, 62, 1691-1705.	2.1	75
133	Simple Measure of Memory for Dynamical Processes Described by a Generalized Langevin Equation. Physical Review Letters, 2005, 95, 200601.	7.8	75
134	Phase-space visualization of a metal-insulator transition. New Journal of Physics, 2004, 6, 70-70.	2.9	74
135	Escape driven by strongly correlated noise. Journal of Statistical Physics, 1989, 54, 1367-1380.	1.2	73
136	Tunneling and the onset of chaos in a driven bistable system. Physical Review E, 1994, 49, 273-280.	2.1	73
137	Channel noise and synchronization in excitable membranes. Physica A: Statistical Mechanics and Its Applications, 2003, 325, 165-175.	2.6	73
138	Origin of Hyperdiffusion in Generalized Brownian Motion. Physical Review Letters, 2010, 105, 100602.	7.8	73
139	Decoherent Dynamics of a Two-Level System Coupled to a Sea of Spins. Physical Review Letters, 1998, 81, 5710-5713.	7.8	72
140	Theory of relativistic Brownian motion: The(1+1)-dimensional case. Physical Review E, 2005, 71, 016124.	2.1	72
141	Quantum Stochastic Synchronization. Physical Review Letters, 2006, 97, 210601.	7.8	72
142	Entropic stochastic resonance: the constructive role of the unevenness. European Physical Journal B, 2009, 69, 11-18.	1.5	71
143	Distance between quantum states in the presence of initial qubit-environment correlations: A comparative study. Physical Review A, 2011, 84, .	2.5	71
144	First-passage time problems for non-Markovian processes. Physical Review A, 1985, 32, 1934-1937.	2.5	70

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145	Wavelength-dependent measurement and evaluation of surface topographies: application of a new concept of window roughness and surface transfer function. <i>Wear</i> , 2000, 237, 231-252.	3.1	70
146	Nonadiabatic Electron Pumping: Maximal Current with Minimal Noise. <i>Physical Review Letters</i> , 2005, 95, 130601.	7.8	70
147	Unified approach to the quantum Kramers reaction rate. <i>Journal of Chemical Physics</i> , 1988, 88, 4094-4095.	3.0	69
148	Escape from a fluctuating double well. <i>Physical Review E</i> , 1995, 51, 3849-3861.	2.1	68
149	Nonlinear Electron Current through a Short Molecular Wire. <i>Physical Review Letters</i> , 2001, 86, 2862-2865.	7.8	68
150	Nonequilibrium density-matrix description of steady-state quantum transport. <i>Physical Review E</i> , 2012, 85, 011126.	2.1	68
151	Is quantum mechanics equivalent to a classical stochastic process?. <i>Physical Review A</i> , 1979, 19, 2440-2445.	2.5	67
152	Dynamics of nonlinear oscillators with fluctuating parameters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 78, 304-306.	2.1	67
153	Activation rates in bistable systems in the presence of correlated noise. <i>Physical Review A</i> , 1983, 27, 3379-3382.	2.5	67
154	Symmetric white noise can induce directed current in ratchets. <i>Physical Review E</i> , 1997, 56, 3968-3975.	2.1	67
155	Control of molecular chirality. <i>Journal of Chemical Physics</i> , 1997, 107, 9935-9941.	3.0	67
156	Giant negative mobility of Janus particles in a corrugated channel. <i>Physical Review E</i> , 2014, 89, 062115.	2.1	67
157	Generalized Fokker-Planck equation: Derivation and exact solutions. <i>European Physical Journal B</i> , 2009, 68, 567-575.	1.5	66
158	Iterative algorithm versus analytic solutions of the parametrically driven dissipative quantum harmonic oscillator. <i>Physical Review E</i> , 2000, 62, 5808-5817.	2.1	65
159	Theory of relativistic Brownian motion: The(1+3)-dimensional case. <i>Physical Review E</i> , 2005, 72, 036106.	2.1	65
160	Anomalous transport in biased ac-driven Josephson junctions: Negative conductances. <i>Physical Review B</i> , 2008, 77, .	3.2	65
161	Paradoxical motion of a single Brownian particle: Absolute negative mobility. <i>Physical Review E</i> , 2002, 66, 066132.	2.1	64
162	Nonadiabatic electron heat pump. <i>Physical Review B</i> , 2007, 76, .	3.2	64

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163	Ratcheting heat flux against a thermal bias. Europhysics Letters, 2008, 84, 40009.	2.0	64
164	Influence of measurements on the statistics of work performed on a quantum system. Physical Review E, 2011, 83, 041114.	2.1	64
165	Bistability and Colored Noise in Nonequilibrium Systems: Theory versus Precise Numerics. Physical Review Letters, 1988, 61, 11-14.	7.8	63
166	Tunneling Center as a Source of Voltage Rectification in Josephson Junctions. Physical Review Letters, 1998, 80, 829-832.	7.8	63
167	Surmounting oscillating barriers: Path-integral approach for weak noise. Physical Review E, 2000, 62, 6282-6303.	2.1	63
168	Quantum dynamics in strong fluctuating fields. Advances in Physics, 2005, 54, 525-584.	14.4	63
169	Quantum state preparation in circuit QED via Landau-Zener tunneling. Europhysics Letters, 2006, 76, 22-28.	2.0	63
170	Anomalous Escape Governed by Thermal 1/f Noise. Physical Review Letters, 2007, 99, 200601.	7.8	63
171	Microcanonical quantum fluctuation theorems. Physical Review E, 2008, 77, 051131.	2.1	63
172	Markovian embedding of non-Markovian superdiffusion. Physical Review E, 2010, 81, 011136.	2.1	63
173	Path integral solutions for non-Markovian processes. European Physical Journal B, 1989, 75, 275-281.	1.5	62
174	Brownian motors in the microscale domain: Enhancement of efficiency by noise. Physical Review E, 2014, 90, 032104.	2.1	62
175	Transient anomalous diffusion in periodic systems: ergodicity, symmetry breaking and velocity relaxation. Scientific Reports, 2016, 6, 30948.	3.3	62
176	Active Brownian motion in a narrow channel. European Physical Journal: Special Topics, 2014, 223, 3227-3242.	2.6	61
177	Brownian parametric quantum oscillator with dissipation. Physical Review E, 1995, 52, 1533-1543.	2.1	60
178	Chiral Separation in Microflows. Physical Review Letters, 2006, 96, 014502.	7.8	60
179	Hydrodynamically Enforced Entropic Trapping of Brownian Particles. Physical Review Letters, 2013, 110, 010601.	7.8	60
180	Quantum tunneling in dissipative media: Intermediate-coupling-strength results. Physical Review A, 1985, 32, 489-499.	2.5	59

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181	Coherent transport in a periodically driven bistable system. Journal of Statistical Physics, 1993, 70, 229-245.	1.2	59
182	Noise-induced transport in symmetric periodic potentials: White shot noise versus deterministic noise. Europhysics Letters, 1996, 35, 315-317.	2.0	59
183	Membranes for Micropumps from Macroporous Silicon. Physica Status Solidi A, 2000, 182, 585-590.	1.7	59
184	Two-State Theory of Nonlinear Stochastic Resonance. Physical Review Letters, 2003, 91, 210601.	7.8	59
185	Consistent description of quantum Brownian motors operating at strong friction. Physical Review E, 2004, 70, 031107.	2.1	59
186	Quantum router based on ac control of qubit chains. Physical Review A, 2009, 80, .	2.5	59
187	Oscillatory systems driven by noise: Frequency and phase synchronization. Physical Review E, 2002, 65, 051110.	2.1	58
188	Stochastic resonance vs. resonant activation. Europhysics Letters, 2006, 74, 937-943.	2.0	58
189	Current and universal scaling in anomalous transport. Physical Review E, 2006, 73, 020101.	2.1	58
190	Flow patterns and transport in Rayleigh surface acoustic wave streaming: combined finite element method and raytracing numerics versus experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2298-2305.	3.0	58
191	Ratchets driven by harmonic and white noise. Physica D: Nonlinear Phenomena, 1997, 109, 17-23.	2.8	57
192	Shot-noise control in ac-driven nanoscale conductors. Physical Review B, 2004, 70, .	3.2	57
193	Dynamical and thermal effects in nanoparticle systems driven by a rotating magnetic field. Physical Review B, 2006, 74, .	3.2	57
194	Thermal Equilibration between Two Quantum Systems. Physical Review Letters, 2011, 106, 010405.	7.8	57
195	Perturbation Spreading in Many-Particle Systems: A Random Walk Approach. Physical Review Letters, 2011, 106, 180601.	7.8	56
196	Dynamics of nonlinear dissipative oscillators. American Journal of Physics, 1983, 51, 347-352.	0.7	55
197	Optical instabilities: new theories for colored-noise-driven laser instabilities. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 979.	2.1	55
198	Colored noise driven systems with inertia. European Physical Journal B, 1989, 77, 471-483.	1.5	55

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199	Stochastic dynamics of time correlation in complex systems with discrete time. Physical Review E, 2000, 62, 6178-6194.	2.1	55
200	Statistics of work performed on a forced quantum oscillator. Physical Review E, 2008, 78, 011115.	2.1	55
201	Shuttling heat across one-dimensional homogenous nonlinear lattices with a Brownian heat motor. Physical Review E, 2009, 80, 011125.	2.1	55
202	Effective Floquet-Gibbs states for dissipative quantum systems. New Journal of Physics, 2016, 18, 053008.	2.9	55
203	Microdynamics and time-evolution of macroscopic non-Markovian systems. Zeitschrift für Physik B Condensed Matter and Quanta, 1977, 26, 389-395.	1.9	54
204	Diffusion of chiral Janus particles in a sinusoidal channel. Europhysics Letters, 2015, 109, 10003.	2.0	54
205	Open system trajectories specify fluctuating work but not heat. Physical Review E, 2016, 94, 022143.	2.1	54
206	Coherent and incoherent chaotic tunneling near singlet-doublet crossings. Physical Review E, 1998, 58, 7219-7230.	2.1	53
207	Is the dynamics of open quantum systems always linear?. Physical Review A, 2004, 69, .	2.5	53
208	Landau-Zener transitions in qubits controlled by electromagnetic fields. New Journal of Physics, 2005, 7, 218-218.	2.9	53
209	Double entropic stochastic resonance. Europhysics Letters, 2009, 87, 50003.	2.0	53
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