Petr Chvosta

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Work distribution in a time-dependent logarithmic–harmonic potential: exact results and asymptotic analysis. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 075002.	2.1	32
2	Resonant activation phenomenon for non-Markovian potential-fluctuation processes. Physical Review E, 2000, 63, .	2.1	24
3	Transport coefficients for a confined Brownian ratchet operating between two heat reservoirs. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 093202.	2.3	24
4	Thermal Ratchet Effect in Confining Geometries. Entropy, 2017, 19, 119.	2.2	23
5	Exact analysis of work fluctuations in two-level systems. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P09019-P09019.	2.3	21
6	Theory of compositionally graded ferroelectrics and pyroelectricity. Applied Physics Letters, 2005, 86, 221922.	3.3	19
7	Energetics and performance of a microscopic heat engine based on exact calculations of work and heat distributions. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P03002.	2.3	18
8	Attempt time Monte Carlo: An alternative for simulation of stochastic jump processes with time-dependent transition rates. Europhysics Letters, 2011, 93, 40003.	2.0	18
9	Single-file diffusion of externally driven particles. Physical Review E, 2011, 83, 020106.	2.1	18
10	Dynamics under the influence of semi-Markov noise. Physica A: Statistical Mechanics and Its Applications, 1999, 268, 103-120.	2.6	17
11	Analytic study of a model of diffusion on a random comblike structure. Physica A: Statistical Mechanics and Its Applications, 1994, 203, 533-565.	2.6	15
12	Probability distribution of work done on a two-level system during a nonequilibrium isothermal process. Physical Review E, 2007, 75, 041124.	2.1	12
13	Survival of interacting Brownian particles in crowded one-dimensional environment. Journal of Chemical Physics, 2012, 136, 064114.	3.0	12
14	Analysis of stochastic resonances. Physical Review E, 2003, 68, 066109.	2.1	11
15	Diffusion in the time-dependent double-well potential. European Physical Journal D, 2006, 56, 125-139.	0.4	11
16	Tracer dynamics in a single-file system with absorbing boundary. Physical Review E, 2014, 89, 022132.	2.1	10
17	Sedimentation of particles acted upon by a vertical, time-oscillating force. New Journal of Physics, 2007, 9, 2-2.	2.9	9
18	Exact solution of a stochastic dimer problem with single-site energy modulation. Physica A: Statistical Mechanics and Its Applications, 1991, 178, 168-194.	2.6	8

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19	Time-resolved study of energy transport in semi-infinite chain with one sink: Coherent versus incoherent description of trapping process. European Physical Journal B, 1991, 85, 227-237.	1.5	8
20	Generalised master equation: dissipative dynamics of the double-well system. Journal of Physics A, 1989, 22, 3927-3943.	1.6	7
21	Diffusion in a potential with a time-dependent discontinuity. Journal of Physics A, 2003, 36, 8753-8758.	1.6	7
22	Asymptotics of work distribution for a Brownian particle in a time-dependent anharmonic potential. Physica Scripta, 2015, T165, 014024.	2.5	7
23	Random-Random Walks: Stability of Dynamical Phases Against Exponential Correlations in a Quenched Directed Model. Europhysics Letters, 1992, 19, 347-353.	2.0	6
24	Kinetics and energetics of reflected diffusion process with time-dependent and space-homogeneous force. New Journal of Physics, 2005, 7, 190-190.	2.9	6
25	Thermodynamics of two-stroke engine based on periodically driven two-level system. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 472-476.	2.7	6
26	Statistics of work performed by optical tweezers with general time-variation of their stiffness. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 275001.	2.1	6
27	Directed random walk with spatially correlated random transfer rates. Physical Review E, 1993, 47, 1610-1617.	2.1	5
28	Non-Markov noise in barrier-fluctuation model. Journal of Physics A, 1997, 30, L307-L312.	1.6	5
29	Subband properties of the strong coupling s—d model from the lowest six momenta. Journal of Magnetism and Magnetic Materials, 1979, 14, 87-93.	2.3	4
30	Path-summation approach to the dynamics of radiative phenomena. Physica A: Statistical Mechanics and Its Applications, 1990, 166, 361-386.	2.6	4
31	Stochastic Model Description of Single Molecule Spectroscopy. Molecular Crystals and Liquid Crystals, 1996, 283, 209-214.	0.3	4
32	Dynamics and energetics for a molecular zipper model under external driving. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P11009.	2.3	4
33	On asymptotic behavior of work distributions for driven Brownian motion. European Physical Journal B, 2015, 88, 1.	1.5	4
34	Electronic Structure of the Ferromagnetic Semiconductor s—d Model from the Lowest Six Momenta. Physica Status Solidi (B): Basic Research, 1980, 97, 221-228.	1,5	3
35	Random-random walk on an asymmetric chain with a trapping attractive center. Journal of Statistical Physics, 1992, 69, 17-34.	1.2	3
36	Spectral properties of linear chain with one-point dynamical disorder. European Physical Journal B, 1992, 86, 419-431.	1.5	3

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37Diffusion on a random comb: Distribution function of the survival probability. Journal of Statistical Physics, 1995, 78, 1403-1428.38Glass transition in a simple stochastic model with back-reaction. Physical Review E, 2004, 69, 041502.39Dissipative dynamics of a harmonic oscillator with environmentally caused frequency modulation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 3155-3165.	1.2 2.1 1.5 3.1	3 3 2 2
Dissipative dynamics of a harmonic oscillator with environmentally caused frequency modulation.	1.5	2
	3.1	2
On the theory of single molecule spectroscopy in condensed matter. Journal of Luminescence, 1997, 72-74, 1015-1016.		
Boundary problems for diffusion in a fluctuating potential. Physica A: Statistical Mechanics and Its Applications, 1998, 255, 332-346.	2.6	2
42 Generalized Master Equations and Boltzmann-like transport in solids. European Physical Journal D, 1989, 39, 251-260.	0.4	1
On the asymptotic-time symmetry breaking in the symmetric spin-boson model. European Physical Journal D, 1990, 40, 585-591.	0.4	1
Dynamics of excitation in systems with a randomly modulated decay channel. Physica A: Statistical Mechanics and Its Applications, 1992, 184, 143-168.	2.6	1
45 Spectral properties of systems with semi-Markov fluctuations. Journal of Luminescence, 1997, 72-74, 918-920.	3.1	1
46 One-Dimensional Diffusion in a Semiinfinite Poisson Random Force. Journal of Statistical Physics, 1999, 97, 323-349.	1.2	1
47 Langevin equation with back-reaction. Journal of Physics A, 2002, 35, L277-L282.	1.6	1
⁴⁸ Diffusion process with two reflecting barriers in a time-dependent potential. Physical Review E, 2007, 76, 011125.	2.1	1
49 Unfolding kinetics of periodic DNA hairpins. Journal of Physics Condensed Matter, 2014, 26, 205102.	1.8	1
50 Collective particle transport in a peristaltic ratchet system. Journal of Physics: Conference Series, 2014, 490, 012184.	0.4	1
51 Mori approach to thermal conductivity in disturbed one-dimensional phonon systems. Physica B: Condensed Matter, 1991, 168, 291-305.	2.7	0
52 Solution of the generalized master equation for an externally driven and environmentally damped two-level system. European Physical Journal B, 1991, 82, 143-152.	1.5	0
 Incoherent transfer in restricted geometries and moving potentials. Journal of Luminescence, 1998, 76-77, 399-403. 	3.1	0
 Exact analysis of stochastic resonance and directed transport in potential with time-dependent discontinuity. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 426-434. 	2.7	0

#	Article	IF	CITATIONS
55	Absorbed driven diffusion can provide positive heat and work output. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	0