## Petr Chvosta

## List of Publications by Year in descending order

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Work distribution in a time-dependent logarithmicâ€"harmonic potential: exact results and asymptotic
analysis. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 075002.

Resonant activation phenomenon for non-Markovian potential-fluctuation processes. Physical Review E, 2000, 63, .

Transport coefficients for a confined Brownian ratchet operating between two heat reservoirs. Journal of Statistical Mechanics: Theory and Experiment, 2016, $2016,093202$.

4 Thermal Ratchet Effect in Confining Geometries. Entropy, 2017, 19, 119.
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Exact analysis of work fluctuations in two-level systems. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P09019-P09019.

Theory of compositionally graded ferroelectrics and pyroelectricity. Applied Physics Letters, 2005, 86, 221922.

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.

Attempt time Monte Carlo: An alternative for simulation of stochastic jump processes with time-dependent transition rates. Europhysics Letters, 2011, 93, 40003.
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| 9 | Single-file diffusion of externally driven particles. Physical Review E, 2011, 83, 020106. | 2.18 |
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$9 \quad$ Single-file diffusion of externally driven particles. Physical Review E, 2011, 83, 020106. 2.18
$9 \quad$ Single-file diffusion of externally driven particles. Physical Review E, 2011, 83, 020106.

10 Dynamics under the influence of semi-Markov noise. Physica A: Statistical Mechanics and Its Applications, 1999, 268, 103-120.

Analytic study of a model of diffusion on a random comblike structure. Physica A: Statistical
Mechanics and Its Applications, 1994, 203, 533-565.

Probability distribution of work done on a two-level system during a nonequilibrium isothermal process. Physical Review E, 2007, 75, 041124.

Survival of interacting Brownian particles in crowded one-dimensional environment. Journal of Chemical Physics, 2012, 136, 064114.

Analysis of stochastic resonances. Physical Review E, 2003, 68, 066109.
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15 Diffusion in the time-dependent double-well potential. European Physical Journal D, 2006, 56, 125-139.
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16 Tracer dynamics in a single-file system with absorbing boundary. Physical Review E, 2014, 89, 022132.
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Sedimentation of particles acted upon by a vertical, time-oscillating force. New Journal of Physics,
2007, 9, 2-2.

Exact solution of a stochastic dimer problem with single-site energy modulation. Physica A:
Statistical Mechanics and Its Applications, 1991, 178, 168-194.

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.

Generalised master equation: dissipative dynamics of the double-well system. Journal of Physics A, 1989, 22, 3927-3943.

Diffusion in a potential with a time-dependent discontinuity. Journal of Physics A, 2003, 36, 8753-8758.
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Asymptotics of work distribution for a Brownian particle in a time-dependent anharmonic potential. Physica Scripta, 2015, T165, 014024.

Random-Random Walks: Stability of Dynamical Phases Against Exponential Correlations in a Quenched
Directed Model. Europhysics Letters, 1992, 19, 347-353.

Kinetics and energetics of reflected diffusion process with time-dependent and space-homogeneous
force. New Journal of Physics, 2005, 7, 190-190.

Thermodynamics of two-stroke engine based on periodically driven two-level system. Physica E:
Low-Dimensional Systems and Nanostructures, 2010, 42, 472-476.

Statistics of work performed by optical tweezers with general time-variation of their stiffness.
Journal of Physics A: Mathematical and Theoretical, 2020, 53, 275001.

Directed random walk with spatially correlated random transfer rates. Physical Review E, 1993, 47,
1610-1617.

Non-Markov noise in barrier-fluctuation model. Journal of Physics A, 1997, 30, L307-L312.
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Subband properties of the strong coupling sâ€"d model from the lowest six momenta. Journal of
Magnetism and Magnetic Materials, 1979, 14, 87-93.

Path-summation approach to the dynamics of radiative phenomena. Physica A: Statistical Mechanics and Its Applications, 1990, 166, 361-386.

Stochastic Model Description of Single Molecule Spectroscopy. Molecular Crystals and Liquid
Crystals, 1996, 283, 209-214.

Dynamics and energetics for a molecular zipper model under external driving. Journal of Statistical
Mechanics: Theory and Experiment, 2012, 2012, P11009.

On asymptotic behavior of work distributions for driven Brownian motion. European Physical
Journal B, 2015, 88, 1.

Electronic Structure of the Ferromagnetic Semiconductor sâ€"d Model from the Lowest Six Momenta.
Physica Status Solidi (B): Basic Research, 1980, 97, 221-228.

Random-random walk on an asymmetric chain with a trapping attractive center. Journal of Statistical
Physics, 1992, 69, 17-34.
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Spectral properties of linear chain with one-point dynamical disorder. European Physical Journal B,
1992, 86, 419-431.
Diffusion on a random comb: Distribution function of the survival probability. Journal of Statistical
Physics, 1995, 78, 1403-1428.

38 Glass transition in a simple stochastic model with back-reaction. Physical Review E, 2004, 69, 041502.
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| 39 | Dissipative dynamics of a harmonic oscillator with environmentally caused frequency modulation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 3155-3165. | 1.5 | 2 |
| :---: | :---: | :---: | :---: |
| 40 | On the theory of single molecule spectroscopy in condensed matter. Journal of Luminescence, 1997, 72-74, 1015-1016. | 3.1 | 2 |
| 41 | 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 |
| 43 | 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.

Spectral properties of systems with semi-Markov fluctuations. Journal of Luminescence, 1997, 72-74,

918-920.

One-Dimensional Diffusion in a Semiinfinite Poisson Random Force. Journal of Statistical Physics, 1999, 97, 323-349.

47 Langevin equation with back-reaction. Journal of Physics A, 2002, 35, L277-L282.

48 Diffusion process with two reflecting barriers in a time-dependent potential. Physical Review E, 2007, 76, 011125.
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## 49 Unfolding kinetics of periodic DNA hairpins. Journal of Physics Condensed Matter, 2014, 26, 205102.

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50 Collective particle transport in a peristaltic ratchet system. Journal of Physics: Conference Series, 2014, 490, 012184.
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Mori approach to thermal conductivity in disturbed one-dimensional phonon systems. Physica B:
Condensed Matter, 1991, 168, 291-305.
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Solution of the generalized master equation for an externally driven and environmentally damped
two-level system. European Physical Journal B, 1991, 82, 143-152.

Incoherent transfer in restricted geometries and moving potentials. Journal of Luminescence, 1998,
76-77, 399-403.
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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.

