

Viktor Holubec

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

676
citations

15
h-index

25
g-index

45
ext. papers

929
ext. citations

3.8
avg, IF

5.19
L-index

#	Paper	IF	Citations
40	Maximum efficiency of low-dissipation heat pumps at given heating load.. <i>Physical Review E</i> , 2022 , 105, 024139	2.4	0
39	Reinforcement learning with artificial microswimmers. <i>Science Robotics</i> , 2021 , 6,	18.6	22
38	Maximum efficiency of absorption refrigerators at arbitrary cooling power. <i>Physical Review E</i> , 2021 , 103, 052125	2.4	3
37	Polarization-density patterns of active particles in motility gradients. <i>Physical Review E</i> , 2021 , 103, 062604	2.4	3
36	How Activity Landscapes Polarize Microswimmers without Alignment Forces. <i>Physical Review Letters</i> , 2021 , 126, 228001	7.4	8
35	Density and polarization of active Brownian particles in curved activity landscapes. <i>Physical Review E</i> , 2021 , 103, 062604	2.4	3
34	Fully Steerable Symmetric Thermoplasmonic Microswimmers. <i>ACS Nano</i> , 2021 , 15, 3434-3440	16.7	8
33	Finite-Size Scaling at the Edge of Disorder in a Time-Delay Vicsek Model.. <i>Physical Review Letters</i> , 2021 , 127, 258001	7.4	2
32	Underdamped active Brownian heat engine. <i>Physical Review E</i> , 2020 , 102, 060101	2.4	13
31	Maximum efficiency of low-dissipation refrigerators at arbitrary cooling power. <i>Physical Review E</i> , 2020 , 101, 052124	2.4	5
30	Statistics of work performed by optical tweezers with general time-variation of their stiffness. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 275001	2	3
29	Active Brownian heat engines. <i>Physical Review Research</i> , 2020 , 2,	3.9	19
28	Living on the edge of instability. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 084014	1.9	8
27	Physically consistent numerical solver for time-dependent Fokker-Planck equations. <i>Physical Review E</i> , 2019 , 99, 032117	2.4	16
26	Effects of noise-induced coherence on the fluctuations of current in quantum absorption refrigerators. <i>Journal of Chemical Physics</i> , 2019 , 151, 044108	3.9	8
25	Brownian molecules formed by delayed harmonic interactions. <i>New Journal of Physics</i> , 2019 , 21, 093014	2.9	8
24	Brownian motion surviving in the unstable cubic potential and the role of Maxwell's demon. <i>Physical Review E</i> , 2018 , 97, 032127	2.4	12

23	Diffusing up the Hill: Dynamics and Equipartition in Highly Unstable Systems. <i>Physical Review Letters</i> , 2018 , 121, 230601	7.4	25
22	Active particles bound by information flows. <i>Nature Communications</i> , 2018 , 9, 3864	17.4	57
21	Cycling Tames Power Fluctuations near Optimum Efficiency. <i>Physical Review Letters</i> , 2018 , 121, 120601	7.4	81
20	Effects of Noise-Induced Coherence on the Performance of Quantum Absorption Refrigerators. <i>Journal of Low Temperature Physics</i> , 2018 , 192, 147-168	1.3	22
19	Work and power fluctuations in a critical heat engine. <i>Physical Review E</i> , 2017 , 96, 030102	2.4	29
18	Diverging, but negligible power at Carnot efficiency: Theory and experiment. <i>Physical Review E</i> , 2017 , 96, 062107	2.4	28
17	Thermal Ratchet Effect in Confining Geometries. <i>Entropy</i> , 2017 , 19, 119	2.8	19
16	Maximum efficiency of steady-state heat engines at arbitrary power. <i>Physical Review E</i> , 2016 , 93, 050101	2.4	39
15	Transport coefficients for a confined Brownian ratchet operating between two heat reservoirs. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016 , 2016, 093202	1.9	18
14	Maximum efficiency of low-dissipation heat engines at arbitrary power. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016 , 2016, 073204	1.9	43
13	Efficiency at and near maximum power of low-dissipation heat engines. <i>Physical Review E</i> , 2015 , 92, 052102	2.5	49
12	Asymptotics of work distribution for a Brownian particle in a time-dependent anharmonic potential. <i>Physica Scripta</i> , 2015 , T165, 014024	2.6	4
11	Brownian motion in time-dependent logarithmic potential: Exact results for dynamics and first-passage properties. <i>Journal of Chemical Physics</i> , 2015 , 143, 114117	3.9	13
10	On asymptotic behavior of work distributions for driven Brownian motion. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	4
9	An exactly solvable model of a stochastic heat engine: optimization of power, power fluctuations and efficiency. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P05022	1.9	49
8	Unfolding kinetics of periodic DNA hairpins. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 205102	1.8	0
7	Non-equilibrium Energy Transformation Processes. <i>Springer Theses</i> , 2014 ,	0.1	6
6	Dynamics and energetics for a molecular zipper model under external driving. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P11009	1.9	2

5	Four Exactly Solvable Examples in Non-Equilibrium Thermodynamics of Small Systems 2011 ,		1
4	Attempt time Monte Carlo: An alternative for simulation of stochastic jump processes with time-dependent transition rates. <i>Europhysics Letters</i> , 2011 , 93, 40003	1.6	15
3	Energetics and performance of a microscopic heat engine based on exact calculations of work and heat distributions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P03002	1.9	15
2	Thermodynamics of two-stroke engine based on periodically driven two-level system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 472-476	3	5
1	Fluctuations in heat engines. <i>Journal of Physics A: Mathematical and Theoretical</i> ,	2	2