

Katja Lindenberg

List of Publications by Year in descending order

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53
papers

875
citations

516710

16
h-index

477307

29
g-index

55
all docs

55
docs citations

55
times ranked

608
citing authors

#	ARTICLE	IF	CITATIONS
1	A continuous-time generalization of the persistent random walk. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 891-898.	2.6	87
2	Converging toward a practical solution of the Holstein molecular crystal model. <i>Journal of Chemical Physics</i> , 1998, 109, 6540-6549.	3.0	74
3	Variational energy band theory for polarons: Mapping polaron structure with the Toyozawa method. <i>Journal of Chemical Physics</i> , 1997, 107, 3159-3178.	3.0	62
4	Dispersionless Transport in a Washboard Potential. <i>Physical Review Letters</i> , 2007, 98, 020602.	7.8	60
5	Continuous time persistent random walk: a review and some generalizations. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	59
6	Variational energy band theory for polarons: Mapping polaron structure with the Merrifield method. <i>Journal of Chemical Physics</i> , 1997, 106, 5622-5630.	3.0	46
7	Order statistics for first passage times in one-dimensional diffusion processes. <i>Journal of Statistical Physics</i> , 1996, 85, 501-512.	1.2	43
8	A variational approach to nonlocal exciton-phonon coupling. <i>Journal of Chemical Physics</i> , 1997, 106, 2728-2740.	3.0	38
9	The Kramers problem in the energy-diffusion limited regime. <i>Journal of Chemical Physics</i> , 1998, 109, 9888-9900.	3.0	32
10	Transport and diffusion of overdamped Brownian particles in random potentials. <i>Physical Review E</i> , 2013, 88, 062105.	2.1	30
11	Single-molecule diffusion in a periodic potential at a solid-liquid interface. <i>Soft Matter</i> , 2014, 10, 753-759.	2.7	28
12	Memory-induced anomalous dynamics in a minimal random walk model. <i>Physical Review E</i> , 2014, 90, 022136.	2.1	25
13	Evanescent continuous-time random walks. <i>Physical Review E</i> , 2013, 88, 062110.	2.1	24
14	One-dimensional arrays of oscillators: Energy localization in thermal equilibrium. <i>Journal of Chemical Physics</i> , 1999, 111, 1373-1384.	3.0	22
15	Globally coupled stochastic two-state oscillators: Fluctuations due to finite numbers. <i>Physical Review E</i> , 2014, 89, 052143.	2.1	20
16	A continuous-time persistent random walk model for flocking. <i>Chaos</i> , 2018, 28, 075507.	2.5	20
17	Charged particle transport in antidot lattices in the presence of magnetic and electric fields: Langevin approach. <i>Physical Review B</i> , 2008, 78, .	3.2	14
18	Momentum and energy propagation in tapered granular chains. <i>Granular Matter</i> , 2013, 15, 735-746.	2.2	14

#	ARTICLE	IF	CITATIONS
19	Arrays of stochastic oscillators: Nonlocal coupling, clustering, and wave formation. <i>Physical Review E</i> , 2014, 90, 052111.	2.1	14
20	Stochastic thermodynamics for a periodically driven single-particle pump. <i>Physical Review E</i> , 2017, 96, 052135.	2.1	12
21	Transport and diffusion of underdamped Brownian particles in random potentials. <i>European Physical Journal B</i> , 2014, 87, 1.	1.5	11
22	Kramers' rate for systems with multiplicative noise. <i>Physical Review E</i> , 2016, 94, 012101.	2.1	11
23	Harvesting thermal fluctuations: Activation process induced by a nonlinear chain in thermal equilibrium. <i>Journal of Chemical Physics</i> , 2000, 112, 10615-10624.	3.0	10
24	Globally coupled stochastic two-state oscillators: synchronization of infinite and finite arrays. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 095001.	2.1	10
25	Pulse propagation in granular chains: The binary collision approximation. <i>International Journal of Modern Physics B</i> , 2017, 31, 1742016.	2.0	10
26	Pulse Propagation in Granular Chains. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	9
27	Channel noise effects on first spike latency of a stochastic Hodgkin-Huxley neuron. <i>Physical Review E</i> , 2017, 95, 022414.	2.1	9
28	Two-dimensional telegraphic processes and their fractional generalizations. <i>Physical Review E</i> , 2020, 101, 012137.	2.1	8
29	Noise Induced Phenomena: a Sampler. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	7
30	Synchronization of coupled noisy oscillators: Coarse graining from continuous to discrete phases. <i>Physical Review E</i> , 2016, 94, 052219.	2.1	7
31	Onsager coefficients for systems with periodic potentials. <i>Physical Review E</i> , 2016, 94, 052129.	2.1	7
32	Large deviation function and fluctuation theorem for classical particle transport. <i>Physical Review E</i> , 2014, 89, 012141.	2.1	5
33	Brownian motion on random dynamical landscapes. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	5
34	Three-stage stochastic pump: Another type of Onsager-Casimir symmetry and results far from equilibrium. <i>Physical Review E</i> , 2018, 97, 062103.	2.1	5
35	Reactions in Subdiffusive Media and Associated Fractional Equations. , 2011, , 77-106.		5
36	Effect of Dimensionality and Anisotropy on the Holstein Polaron. <i>Materials Research Society Symposia Proceedings</i> , 1998, 543, 345.	0.1	4

#	ARTICLE	IF	CITATIONS
37	GLOBAL ALTERNATION-INDUCED PATTERNS. Fluctuation and Noise Letters, 2002, 02, R139-R159.	1.5	4
38	Unsolved Problems of Surface Diffusion at Low Friction. AIP Conference Proceedings, 2005, , .	0.4	3
39	Arrival Statistics and Exploration Properties of Mortal Walkers. , 2014, , 1-20.		3
40	Arrays of two-state stochastic oscillators: Roles of tail and range of interactions. Physical Review E, 2017, 95, 032104.	2.1	3
41	RATCHETS IN HOMOGENEOUS EXTENDED SYSTEMS: INTERNAL MODES AND THE ROLE OF NOISE. Fluctuation and Noise Letters, 2004, 04, L571-L584.	1.5	2
42	STOKES' DRIFT AND HYPERSENSITIVE RESPONSE WITH DICHOTOMOUS MARKOV NOISE. Fluctuation and Noise Letters, 2005, 05, L397-L415.	1.5	2
43	Dynamical approach to weakly dissipative granular collisions. Physical Review E, 2015, 92, 012201.	2.1	2
44	Stochastic thermodynamics for Ising chain and symmetric exclusion process. Physical Review E, 2017, 95, 032114.	2.1	2
45	Initial Distribution Effects on Diffusion-Limited Reactions in Constrained Geometries. Materials Research Society Symposia Proceedings, 1996, 464, 151.	0.1	1
46	Descending from infinity: Convergence of tailed distributions. Physical Review E, 2015, 91, 012128.	2.1	1
47	Pulse Propagation in Granular Chains. AIP Conference Proceedings, 2011, , .	0.4	1
48	Global Reaction Rates from Local Cluster Distributions. Materials Research Society Symposia Proceedings, 1994, 366, 395.	0.1	0
49	Reaction-Diffusion Model for the $A + A \rightarrow O$ Reaction. Materials Research Society Symposia Proceedings, 1994, 366, 377.	0.1	0
50	Noise worth listening to. Nature, 2002, 420, 24-25.	27.8	0
51	Fractional calculus and morphogen gradient formation. , 2012, , .		0
52	Synchronization and fluctuations: Coupling a finite number of stochastic units. Physical Review E, 2020, 101, 062140.	2.1	0
53	SPATIAL PATTERNS INDUCED BY RANDOM SWITCHING. , 2022, , 203-211.		0