

Felix HÃ¶filing

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

2,259
citations

279798

23
h-index

254184

43
g-index

43
all docs

43
docs citations

43
times ranked

1940
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous transport in the crowded world of biological cells. Reports on Progress in Physics, 2013, 76, 046602.	20.1	976
2	Localization Transition of the Three-Dimensional Lorentz Model and Continuum Percolation. Physical Review Letters, 2006, 96, 165901.	7.8	147
3	Development of anomalous diffusion among crowding proteins. Soft Matter, 2010, 6, 2648.	2.7	86
4	Phase transition and critical behavior of the $d=3$ Gross-Neveu model. Physical Review B, 2002, 66, .	3.2	80
5	Critical dynamics of ballistic and Brownian particles in a heterogeneous environment. Journal of Chemical Physics, 2008, 128, 164517.	3.0	65
6	Crossover in the Slow Decay of Dynamic Correlations in the Lorentz Model. Physical Review Letters, 2007, 98, 140601.	7.8	64
7	Highly accelerated simulations of glassy dynamics using GPUs: Caveats on limited floating-point precision. Computer Physics Communications, 2011, 182, 1120-1129.	7.5	60
8	The localization transition of the two-dimensional Lorentz model. European Physical Journal: Special Topics, 2010, 189, 103-118.	2.6	55
9	Characterizing anomalous diffusion in crowded polymer solutions and gels over five decades in time with variable-lengthscale fluorescence correlation spectroscopy. Soft Matter, 2016, 12, 4190-4203.	2.7	53
10	Enhanced wavelength-dependent surface tension of liquid-vapour interfaces. Europhysics Letters, 2015, 109, 46002.	2.0	41
11	Cluster-resolved dynamic scaling theory and universal corrections for transport on percolating systems. Europhysics Letters, 2008, 84, 66002.	2.0	40
12	Anomalous transport resolved in space and time by fluorescence correlation spectroscopy. Soft Matter, 2011, 7, 1358-1363.	2.7	39
13	Splitting of the Universality Class of Anomalous Transport in Crowded Media. Physical Review Letters, 2016, 116, 060601.	7.8	39
14	H5MD: A structured, efficient, and portable file format for molecular data. Computer Physics Communications, 2014, 185, 1546-1553.	7.5	34
15	Rounding of the localization transition in model porous media. Soft Matter, 2015, 11, 701-711.	2.7	34
16	Enhanced Diffusion of a Needle in a Planar Array of Point Obstacles. Physical Review Letters, 2008, 101, 120605.	7.8	33
17	Effective Perrin theory for the anisotropic diffusion of a strongly hindered rod. Europhysics Letters, 2009, 85, 30003.	2.0	31
18	Persistent memory for a Brownian walker in a random array of obstacles. Chemical Physics, 2010, 375, 540-547.	1.9	31

#	ARTICLE	IF	CITATIONS
19	Active colloidal propulsion over a crystalline surface. <i>New Journal of Physics</i> , 2017, 19, 125010.	2.9	29
20	Rapid onset of molecular friction in liquids bridging between the atomistic and hydrodynamic pictures. <i>Communications Physics</i> , 2020, 3, .	5.3	29
21	Entangled dynamics of a stiff polymer. <i>Physical Review E</i> , 2008, 77, 060904.	2.1	28
22	Structure and dynamics of binary liquid mixtures near their continuous demixing transitions. <i>Journal of Chemical Physics</i> , 2016, 145, 134505.	3.0	27
23	Molecular Dynamics of Open Systems: Construction of a Mean-Field Particle Reservoir. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900014.	2.8	27
24	Anomalous Magnetotransport in Disordered Structures: Classical Edge-State Percolation. <i>Physical Review Letters</i> , 2015, 115, 240602.	7.8	23
25	Anomalous transport of a tracer on percolating clusters. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 234120.	1.8	19
26	Dynamic arrest in model porous media—intermediate scattering functions. <i>Soft Matter</i> , 2013, 9, 1604-1611.	2.7	18
27	Long-wavelength anomalies in the asymptotic behavior of mode-coupling theory. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 234121.	1.8	17
28	Theory and simulation of open systems out of equilibrium. <i>Journal of Chemical Physics</i> , 2020, 153, 101102.	3.0	16
29	Diffusion-influenced reaction rates in the presence of pair interactions. <i>Journal of Chemical Physics</i> , 2019, 151, 164105.	3.0	14
30	Space-resolved dynamics of a tracer in a disordered solid. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 472-478.	3.1	13
31	Thermodynamic Relations at the Coupling Boundary in Adaptive Resolution Simulations for Open Systems. <i>Advanced Theory and Simulations</i> , 2021, 4, 2000303.	2.8	12
32	Tube Concept for Entangled Stiff Fibers Predicts Their Dynamics in Space and Time. <i>Physical Review Letters</i> , 2016, 117, 097801.	7.8	11
33	Dynamically crowded solutions of infinitely thin Brownian needles. <i>Physical Review E</i> , 2017, 96, 012118.	2.1	10
34	Finite-size corrections for the static structure factor of a liquid slab with open boundaries. <i>Journal of Chemical Physics</i> , 2020, 153, 054119.	3.0	9
35	Localization phenomena in models of ion-conducting glass formers. <i>European Physical Journal: Special Topics</i> , 2010, 189, 141-145.	2.6	8
36	Nonequilibrium Induced by Reservoirs: Physico-Mathematical Models and Numerical Tests. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100071.	2.8	7

#	ARTICLE	IF	CITATIONS
37	Stochastic pH Oscillations in a Model of the Urea-Urease Reaction Confined to Lipid Vesicles. Journal of Physical Chemistry Letters, 2021, 12, 9888-9893.	4.6	7
38	A probabilistic framework for particle-based reaction-diffusion dynamics using classical Fock space representations. Letters in Mathematical Physics, 2022, 112, .	1.1	7
39	Magnetic susceptibilities of diluted magnetic semiconductors and anomalous Hall-voltage noise. Physical Review B, 2004, 69, .	3.2	6
40	GPU-accelerated simulation of colloidal suspensions with direct hydrodynamic interactions. European Physical Journal: Special Topics, 2012, 210, 101-117.	2.6	6
41	Generalized master equation for first-passage problems in partitioned spaces. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 215601.	2.1	3
42	Spontaneous trail formation in populations of auto-chemotactic walkers. New Journal of Physics, 2022, 24, 013012.	2.9	3
43	Continuous Demixing Transition of Binary Liquids: Finite-Size Scaling from the Analysis of Sub-Systems. Advanced Theory and Simulations, 2021, 4, 2000235.	2.8	2