

# Igor M Sokolov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4640385/publications.pdf>

Version: 2024-02-01

317  
papers

12,690  
citations

28736

57  
h-index

40945

97  
g-index

341  
all docs

341  
docs citations

341  
times ranked

7709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonergodicity of reset geometric Brownian motion. <i>Physical Review E</i> , 2022, 105, L012106.	0.8	37
2	Restoring ergodicity of stochastically reset anomalous-diffusion processes. <i>Physical Review Research</i> , 2022, 4, .	1.3	16
3	Ticks on the Run: A Mathematical Model of Crimean-Congo Haemorrhagic Fever (CCHF)â€™Key Factors for Transmission. <i>Epidemiologia</i> , 2022, 3, 116-134.	1.1	5
4	Atomic resolution with high-eigenmode tapping mode atomic force microscopy. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
5	Universal fluctuations and ergodicity of generalized diffusivity on critical percolation clusters. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 345001.	0.7	2
6	Emergence of Polarized Ideological Opinions in Multidimensional Topic Spaces. <i>Physical Review X</i> , 2021, 11, .	2.8	24
7	Relation between generalized diffusion equations and subordination schemes. <i>Physical Review E</i> , 2021, 103, 032133.	0.8	27
8	Large deviations in continuous-time random walks. <i>Physical Review E</i> , 2021, 103, 042116.	0.8	8
9	Modeling the voltage distribution in a non-locally but globally electroneutral confined electrolyte medium: applications for nanophysiology. <i>Journal of Mathematical Biology</i> , 2021, 82, 65.	0.8	1
10	Sub-diffusive behavior in the Standard Map. <i>European Physical Journal: Special Topics</i> , 2021, 230, 2765-2773.	1.2	1
11	Scaled geometric Brownian motion features sub- or superexponential ensemble-averaged, but linear time-averaged mean-squared displacements. <i>Physical Review E</i> , 2021, 103, 062127.	0.8	22
12	Shaping surfaces and interfaces of 2D materials on mica with intercalating water and ethanol. <i>Molecular Physics</i> , 2021, 119, .	0.8	3
13	Time averaging and emerging nonergodicity upon resetting of fractional Brownian motion and heterogeneous diffusion processes. <i>Physical Review E</i> , 2021, 104, 024105.	0.8	46
14	Inertia triggers nonergodicity of fractional Brownian motion. <i>Physical Review E</i> , 2021, 104, 024115.	0.8	32
15	Convergence to a Gaussian by Narrowing of Central Peak in Brownian yet Non-Gaussian Diffusion in Disordered Environments. <i>Physical Review Letters</i> , 2021, 127, 120601.	2.9	16
16	Multiphoton resonance in a driven Kerr oscillator in the presence of high-order nonlinearities. <i>Physical Review A</i> , 2021, 104, .	1.0	0
17	Non-Gaussian, transiently anomalous, and ergodic self-diffusion of flexible dumbbells in crowded two-dimensional environments: Coupled translational and rotational motions. <i>Physical Review E</i> , 2021, 104, 064603.	0.8	9
18	Locally temperature - driven mathematical model of West Nile virus spread in Germany. <i>Journal of Theoretical Biology</i> , 2020, 488, 110117.	0.8	13

#	ARTICLE	IF	CITATIONS
19	Inhomogeneous parametric scaling and variable-order fractional diffusion equations. <i>Physical Review E</i> , 2020, 102, 012133.	0.8	4
20	Resetting processes with noninstantaneous return. <i>Physical Review E</i> , 2020, 101, 052130.	0.8	74
21	Reversible Switching of Charge Transfer at the Graphene–Mica Interface with Intercalating Molecules. <i>ACS Nano</i> , 2020, 14, 11594-11604.	7.3	7
22	Brownian motion under noninstantaneous resetting in higher dimensions. <i>Physical Review E</i> , 2020, 102, 032129.	0.8	17
23	Brownian yet non-Gaussian diffusion in heterogeneous media: from superstatistics to homogenization. <i>New Journal of Physics</i> , 2020, 22, 063046.	1.2	38
24	Continuous-time random walks under power-law resetting. <i>Physical Review E</i> , 2020, 101, 062117.	0.8	25
25	4theory Hamiltonian for fluids: Application to the surface tension near the critical point. <i>Physical Review B</i> , 2020, 101, .	1.1	0
26	Spectral energy distribution of the equilibrium radiation and its asymptotic behavior in ideal gaseous plasmas. <i>Physics of Plasmas</i> , 2020, 27, 022106.	0.7	6
27	Modeling Echo Chambers and Polarization Dynamics in Social Networks. <i>Physical Review Letters</i> , 2020, 124, 048301.	2.9	182
28	Epidemics with mutating infectivity on small-world networks. <i>Scientific Reports</i> , 2020, 10, 5919.	1.6	22
29	Unexpected crossovers in correlated random-diffusivity processes. <i>New Journal of Physics</i> , 2020, 22, 083041.	1.2	53
30	Scaled Brownian motion with renewal resetting. <i>Physical Review E</i> , 2019, 100, 012120.	0.8	68
31	Mean squared displacement in a generalized Lévy walk model. <i>Physical Review E</i> , 2019, 100, 012117.	0.8	8
32	Tunneling current induced squeezing of the single-molecule vibrational mode. <i>Physical Review B</i> , 2019, 100, .	1.1	6
33	Nonrenewal resetting of scaled Brownian motion. <i>Physical Review E</i> , 2019, 100, 012119.	0.8	63
34	Enhanced excitation of a driven bistable system induced by spectrum degeneracy. <i>Physical Review A</i> , 2019, 100, .	1.0	4
35	Reconstruction of substrate’s diffusion landscape by the wavelet analysis of single particle diffusion tracks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 533, 122102.	1.2	3
36	Statistical properties of intermittent bursts in the Texas Helimak. <i>Physics of Plasmas</i> , 2019, 26, 052301.	0.7	4

#	ARTICLE	IF	CITATIONS
37	Effects of tunneling and multiphoton transitions on squeezed-state generation in bistable driven systems. <i>Physical Review A</i> , 2019, 99, .	1.0	7
38	Extreme fluctuation dominance in biology: On the usefulness of wastefulness. <i>Physics of Life Reviews</i> , 2019, 28, 88-91.	1.5	18
39	Influence of interface hydration on sliding of graphene and molybdenum-disulfide single-layers. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 142-147.	5.0	15
40	Non-monotonous Wetting of Grapheneâ€“Mica and MoS <sub>2</sub> â€“Mica Interfaces with a Molecular Layer of Water. <i>Langmuir</i> , 2018, 34, 15228-15237.	1.6	15
41	Influencers identification in complex networks through reaction-diffusion dynamics. <i>Physical Review E</i> , 2018, 98, .	0.8	13
42	Reaction-diffusion on random spatial networks with scale-free jumping rates via effective medium theory. <i>Physical Review E</i> , 2018, 98, .	0.8	1
43	Life time of catch bond clusters. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 507, 398-405.	1.2	2
44	Random Search with Resetting: A Unified Renewal Approach. <i>Physical Review Letters</i> , 2018, 121, 050601.	2.9	170
45	An improved scheme for a Robin boundary condition in discrete-time random walk algorithms. <i>Journal of Computational Physics</i> , 2018, 374, 1152-1165.	1.9	28
46	Beyond monofractional kinetics. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 210-217.	2.5	43
47	Effective distances for epidemics spreading on complex networks. <i>Physical Review E</i> , 2017, 95, 012313.	0.8	80
48	Time averages in continuous-time random walks. <i>Physical Review E</i> , 2017, 95, 022108.	0.8	6
49	Diffusion of active particles with stochastic torques modeled as $\alpha$ -stable noise. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 034003.	0.7	12
50	Underdamped stochastic harmonic oscillator driven by Lévy noise. <i>Physical Review E</i> , 2017, 96, 042118.	0.8	12
51	Direct and inverse problems in dispersive time-of-flight photocurrent revisited. <i>European Physical Journal B</i> , 2017, 90, 1.	0.6	1
52	Brownian yet Non-Gaussian Diffusion: From Superstatistics to Subordination of Diffusing Diffusivities. <i>Physical Review X</i> , 2017, 7, .	2.8	235
53	Spot variation fluorescence correlation spectroscopy by data post-processing. <i>Scientific Reports</i> , 2017, 7, 5614.	1.6	4
54	Population equations for degree-heterogenous neural networks. <i>Physical Review E</i> , 2017, 96, 052306.	0.8	3

#	ARTICLE	IF	CITATIONS
55	Insight into the wetting of a graphene-mica slit pore with a monolayer of water. <i>Physical Review B</i> , 2017, 95, .	1.1	14
56	Eliminating inertia in a stochastic model of a micro-swimmer with constant speed. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2039-2055.	1.2	13
57	Generalized fluctuation-dissipation theorem as a test of the Markovianity of a system. <i>Europhysics Letters</i> , 2017, 118, 20001.	0.7	9
58	Transport on intermediate time scales in flows with cat's eye patterns. <i>Physical Review E</i> , 2017, 96, 062128.	0.8	4
59	Adiabatic elimination of inertia of the stochastic microswimmer driven by $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi}> \hat{\Gamma} \langle / \text{mml:mi}> \langle / \text{mml:math}>$ -stable noise. <i>Physical Review E</i> , 2017, 96, 042610.	0.8	2
60	Nonscaling displacement distributions as may be seen in fluorescence correlation spectroscopy. <i>Physical Review E</i> , 2017, 95, 052139.	0.8	1
61	A statistical study of gyro-averaging effects in a reduced model of drift-wave transport. <i>Physics of Plasmas</i> , 2016, 23, 082308.	0.7	1
62	Sorption of small molecules in polymeric media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 464, 54-63.	1.2	2
63	Anomalous transport in cellular flows: The role of initial conditions and aging. <i>Physical Review E</i> , 2016, 94, 032128.	0.8	10
64	A model of return intervals between earthquake events. <i>Europhysics Letters</i> , 2016, 114, 60003.	0.7	4
65	Effective-medium approximation for lattice random walks with long-range jumps. <i>Physical Review E</i> , 2016, 94, 012135.	0.8	8
66	What information is contained in the fluorescence correlation spectroscopy curves, and where. <i>Physical Review E</i> , 2016, 94, 022407.	0.8	10
67	Giant diffusion of underdamped particles in a biased periodic potential. <i>Physical Review E</i> , 2016, 93, 042106.	0.8	56
68	Reconstructing interaction potentials in thin films from real-space images. <i>Physical Review E</i> , 2016, 93, 043306.	0.8	3
69	Nonspectral modes and how to find them in the Ornstein-Uhlenbeck process with white $\hat{\Gamma}$ -stable noise. <i>Physical Review E</i> , 2016, 93, 052104.	0.8	5
70	Underdamped scaled Brownian motion: (non-)existence of the overdamped limit in anomalous diffusion. <i>Scientific Reports</i> , 2016, 6, 30520.	1.6	79
71	What is the alternative to the Alexander-Orbach relation?. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 095003.	0.7	10
72	Infections on Temporal Networks- A Matrix-Based Approach. <i>PLoS ONE</i> , 2016, 11, e0151209.	1.1	19

#	ARTICLE	IF	CITATIONS
73	Non-equilibrium Escape Problems Under Bivariate $\alpha$ -stable Noises. Acta Physica Polonica B, 2016, 47, 1327.	0.3	2
74	Distributed-order diffusion equations and multifractality: Models and solutions. Physical Review E, 2015, 92, 042117.	0.8	83
75	Quantifying the non-ergodicity of scaled Brownian motion. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 375002.	0.7	54
76	A toolbox for determining subdiffusive mechanisms. Physics Reports, 2015, 573, 1-29.	10.3	240
77	Nanophase Separation in Monomolecularly Thin Water-Ethanol Films Controlled by Graphene. Nano Letters, 2015, 15, 1171-1176.	4.5	24
78	On the spectral distribution of the energy of equilibrium radiation in matter. JETP Letters, 2015, 101, 299-302.	0.4	22
79	Robust linear regression with broad distributions of errors. Physica A: Statistical Mechanics and Its Applications, 2015, 434, 257-267.	1.2	5
80	Diffusion through Bifurcations in Oscillating Nano- and Microscale Contacts: Fundamentals and Applications. Physical Review X, 2015, 5, .	2.8	14
81	Taming Lévy flights in confined crowded geometries. Journal of Chemical Physics, 2015, 142, 164904.	1.2	4
82	Codifference as a practical tool to measure interdependence. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 412-429.	1.2	58
83	Estimation of the smallest eigenvalue in fractional escape problems: Semi-analytics and fits. Computer Physics Communications, 2015, 187, 29-37.	3.0	15
84	Degree Correlations Optimize Neuronal Network Sensitivity to Sub-Threshold Stimuli. PLoS ONE, 2015, 10, e0121794.	1.1	22
85	Spectral properties of the fractional Fokker-Planck operator for the Lévy flight in a harmonic potential. European Physical Journal B, 2014, 87, 1.	0.6	4
86	Weak ergodicity breaking in an anomalous diffusion process of mixed origins. Physical Review E, 2014, 89, 012136.	0.8	42
87	Percolation of spatially constrained Erdős-Rényi networks with degree correlations. Physical Review E, 2014, 89, 012116.	0.8	26
88	Tracer diffusion inside fibrinogen layers. Journal of Chemical Physics, 2014, 140, 044706.	1.2	7
89	Scaled Brownian motion as a mean-field model for continuous-time random walks. Physical Review E, 2014, 89, 012115.	0.8	88
90	Not hotter than hot. Nature Physics, 2014, 10, 7-8.	6.5	20

#	ARTICLE	IF	CITATIONS
91	Dynamics of Ethanol and Water Mixtures Observed in a Self-Adjusting Molecularly Thin Slit Pore. <i>Langmuir</i> , 2014, 30, 3455-3459.	1.6	29
92	Dynamical localization and eigenstate localization in trap models. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	1
93	Anomalous diffusion of self-propelled particles in directed random environments. <i>Physical Review E</i> , 2014, 90, 030701.	0.8	33
94	Statistics of Time-Dependent Rupture of Single ds-DNA. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8875-8879.	1.2	2
95	Test for Determining a Subdiffusive Model in Ergodic Systems from Single Trajectories. <i>Physical Review Letters</i> , 2013, 110, 090601.	2.9	61
96	Nonspectral Relaxation in One Dimensional Ornstein-Uhlenbeck Processes. <i>Physical Review Letters</i> , 2013, 110, 150602.	2.9	18
97	Disentangling Sources of Anomalous Diffusion. <i>Physical Review Letters</i> , 2013, 111, 010601.	2.9	41
98	Onsagers Fluctuation Theory and New Developments Including Non-equilibrium Levy Fluctuations. <i>Acta Physica Polonica B</i> , 2013, 44, 859.	0.3	3
99	Effective pair potential for atoms in the Coulomb model of substance. <i>Europhysics Letters</i> , 2013, 101, 35002.	0.7	4
100	Bulk-mediated Surface Diffusion on a Cylinder in the Fast Exchange Limit. <i>Mathematical Modelling of Natural Phenomena</i> , 2013, 8, 114-126.	0.9	2
101	Canonical fitness model for simple scale-free graphs. <i>Physical Review E</i> , 2013, 87, 022806.	0.8	3
102	Unfolding Accessibility Provides a Macroscopic Approach to Temporal Networks. <i>Physical Review Letters</i> , 2013, 110, 118701.	2.9	99
103	Diffusion of small particles in a solid polymeric medium. <i>Physical Review E</i> , 2013, 88, 022120.	0.8	4
104	Necessary conditions of the equivalence of canonical and grand canonical ensembles in Coulomb system thermodynamics. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	19
105	Communication: Impact of inertia on biased Brownian transport in confined geometries. <i>Journal of Chemical Physics</i> , 2012, 136, 111102.	1.2	17
106	Application of hyperbolic scaling for calculation of reaction-subdiffusion front propagation. <i>Physical Review E</i> , 2012, 86, 022101.	0.8	3
107	Anomalous diffusion in run-and-tumble motion. <i>Physical Review E</i> , 2012, 86, 021117.	0.8	34
108	Active particles forced by an asymmetric dichotomous angle drive. <i>Physical Review E</i> , 2012, 85, 052101.	0.8	16

#	ARTICLE	IF	CITATIONS
109	Spread of infectious diseases in directed and modular metapopulation networks. Physical Review E, 2012, 85, 066111.	0.8	30
110	Bulk-mediated diffusion on a planar surface: Full solution. Physical Review E, 2012, 86, 041101.	0.8	50
111	Reversible Dewetting of a Molecularly Thin Fluid Water Film in a Soft Grapheneâ€Mica Slit Pore. Nano Letters, 2012, 12, 774-779.	4.5	90
112	Model of lateral diffusion in ultrathin layered films. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5095-5101.	1.2	10
113	Models of anomalous diffusion in crowded environments. Soft Matter, 2012, 8, 9043.	1.2	453
114	Antipersistent Random Walk in a Two State Flashing Magnetic Potential. Physical Review Letters, 2012, 109, 070601.	2.9	13
115	Normal and anomalous diffusion in random potential landscapes. Physical Review E, 2012, 85, 050104.	0.8	15
116	Superdiffusion in 2D open-horizon billiards with stochastically oscillating boundaries. Europhysics Letters, 2012, 98, 10006.	0.7	4
117	Measuring statistical evenness: A panoramic overview. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1323-1353.	1.2	78
118	On the fractal characterization of Paretian Poisson processes. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3043-3053.	1.2	13
119	Anomalous Diffusion on Fractal Networks. , 2012, , 13-25.		2
120	Front Propagation in an Autocatalytic Reaction-Subdiffusion System. , 2012, , 239-247.		0
121	Evidence of Rouse-like dynamics in magnetically ratchetting colloidal chains. Soft Matter, 2011, 7, 7944.	1.2	4
122	Configurational subdiffusion of peptides: A network study. Physical Review E, 2011, 83, 021902.	0.8	12
123	Relaxation to stationary states for anomalous diffusion. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4549-4557.	1.7	12
124	Electric Microfield Distributions in Alkali Plasmas with Account of the Ion Structure in a Moderately Coupled Approximation. Contributions To Plasma Physics, 2011, 51, 386-390.	0.5	0
125	Harmonic oscillator under LÃ©vy noise: Unexpected properties in the phase space. Physical Review E, 2011, 83, 041118.	0.8	36
126	Asymptotic front behavior in an $A \rightarrow B + \hat{t}$ under subdiffusion. Physical Review E, 2011, 83, 031101.		2



#	ARTICLE	IF	CITATIONS
127	Unequal Twins: Probability Distributions Do Not Determine Everything. Physical Review Letters, 2011, 107, 260601.	2.9	25
128	Distribution of first-passage times to specific targets on compactly explored fractal structures. Physical Review E, 2011, 83, 020104.	0.8	24
129	Effective surface motion on a reactive cylinder of particles that perform intermittent bulk diffusion. Journal of Chemical Physics, 2011, 134, 204116.	1.2	24
130	Natural and Modified Forms of Distributed-Order Fractional Diffusion Equations. , 2011, , 107-127.		12
131	Molecular dynamic simulations of electric microfield distributions in a nonideal electron-positron plasma. Plasma Physics Reports, 2010, 36, 1161-1166.	0.3	2
132	Convolutd Gauss-Levy distributions and exploding Coulomb clusters. European Physical Journal: Special Topics, 2010, 187, 157-170.	1.2	7
133	Collective escape processes in many-particle systems. European Physical Journal: Special Topics, 2010, 191, 187-210.	1.2	2
134	LÃ©vy ratchet in a weak noise limit: Theory and simulation. European Physical Journal: Special Topics, 2010, 191, 223-237.	1.2	24
135	Ito, Stratonovich, HÃ©nggi and all the rest: The thermodynamics of interpretation. Chemical Physics, 2010, 375, 359-363.	0.9	65
136	Measuring statistical heterogeneity: The Pietra index. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 117-125.	1.2	70
137	Maximization of statistical heterogeneity: From Shannon's entropy to Gini's index. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3023-3038.	1.2	47
138	Gini characterization of extreme-value statistics. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 4462-4472.	1.2	22
139	Statistical mechanics of entropic forces: disassembling a toy. European Journal of Physics, 2010, 31, 1353-1367.	0.3	27
140	Kramers-like escape driven by fractional Gaussian noise. Physical Review E, 2010, 81, 041119.	0.8	52
141	Subdiffusion of mixed origins: When ergodicity and nonergodicity coexist. Physical Review E, 2010, 81, 010101.	0.8	96
142	Law of Mass Action, Detailed Balance, and the Modeling of Calcium Puffs. Physical Review Letters, 2010, 105, 048103.	2.9	48
143	On anomalous diffusion in a plasma in velocity space. Physics of Plasmas, 2010, 17, .	0.7	4
144	On the relation between event-based and time-based current statistics. Europhysics Letters, 2010, 89, 10008.	0.7	5

#	ARTICLE	IF	CITATIONS
145	The matchmaking paradox: a statistical explanation. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 055001.	0.7	12
146	Sampling from scale-free networks and the matchmaking paradox. Physical Review E, 2010, 81, 026107.	0.8	16
147	Stationary states in single-well potentials under symmetric Lévy noises. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P07008.	0.9	29
148	Thermally activated breakdown in a simple polymer model. Physical Review E, 2010, 81, 031804.	0.8	11
149	Diversity of Poissonian populations. Physical Review E, 2010, 81, 011122.	0.8	13
150	Front propagation in a one-dimensional autocatalytic reaction-subdiffusion system. Physical Review E, 2009, 79, 041135.	0.8	14
151	Mean field model of coagulation and annihilation reactions in a medium of quenched traps: Subdiffusion. Physical Review E, 2009, 79, 051113.	0.8	9
152	Scaling of the rupture dynamics of polymer chains pulled at one end at a constant rate. Physical Review E, 2009, 79, 021803.	0.8	15
153	Internal friction and mode relaxation in a simple chain model. Journal of Chemical Physics, 2009, 131, 235104.	1.2	5
154	Electric Microfield Distributions in Alkali Plasmas with Account of the Ion Structure. Contributions To Plasma Physics, 2009, 49, 388-402.	0.5	2
155	Velocity Distributions and Kinetic Equations for Plasmas Including Levy Type Power Law Tails. Contributions To Plasma Physics, 2009, 49, 704-712.	0.5	9
156	Subdiffusion in time-averaged, confined random walks. Physical Review E, 2009, 80, 011109.	0.8	78
157	Continuous-time random walk with correlated waiting times. Physical Review E, 2009, 80, 031112.	0.8	72
158	Universal fluctuations in subdiffusive transport. Europhysics Letters, 2009, 86, 30009.	0.7	39
159	Bulk-mediated surface diffusion along a cylinder: Propagators and crossovers. Physical Review E, 2009, 79, 040105.	0.8	43
160	Rapid Trench Channeling of Graphenes with Catalytic Silver Nanoparticles. Nano Letters, 2009, 9, 457-461.	4.5	136
161	Non-monotonic dependence of the polymer rupture force on molecule chain length. Europhysics Letters, 2009, 86, 28001.	0.7	5
162	Data scattering in scanning tunneling spectroscopy. Ultramicroscopy, 2008, 109, 85-90.	0.8	2

#	ARTICLE	IF	CITATIONS
163	One-Dimensional Space-Discrete Transport Subject to $\alpha$ Perturbations. Journal of Statistical Physics, 2008, 133, 205-215.	0.5	1
164	Infection fronts in contact disease spread. European Physical Journal B, 2008, 65, 353-359.	0.6	10
165	Editorial: Ecological complex systems. European Physical Journal B, 2008, 65, 307-314.	0.6	23
166	Hopping on a zig-zag course. European Physical Journal: Special Topics, 2008, 157, 33-42.	1.2	13
167	Subdiffusion in Peptides Originates from the Fractal-Like Structure of Configuration Space. Physical Review Letters, 2008, 100, 188103.	2.9	63
168	Nonergodicity Mimics Inhomogeneity in Single Particle Tracking. Physical Review Letters, 2008, 100, 250602.	2.9	281
169	Reaction-subdiffusion equations for the $A \rightarrow B$ reaction. Physical Review E, 2008, 77, 032102.	0.8	28
170	Generalized fractional diffusion equations for accelerating subdiffusion and truncated Levy flights. Physical Review E, 2008, 78, 021111.	0.8	102
171	Front propagation in $A + B \rightarrow 2A$ reaction under subdiffusion. Physical Review E, 2008, 78, 011128.	0.8	25
172	Transport in a Levy ratchet: Group velocity and distribution spread. Physical Review E, 2008, 78, 011117.	0.8	45
173	Continuous-time random walks with internal dynamics and subdiffusive reaction-diffusion equations. Physical Review E, 2008, 78, 060102.	0.8	18
174	Stationary Fronts in an $A + B \rightarrow O$ Reaction under Subdiffusion. Physical Review Letters, 2008, 100, 108304.	2.9	37
175	Mesoscopic description of reactions for anomalous diffusion: a case study. Journal of Physics Condensed Matter, 2007, 19, 065118.	0.7	28
176	Multi-point distribution function for the continuous time random walk. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P08001-P08001.	0.9	25
177	Growing networks under geographical constraints. Physical Review E, 2007, 75, 046117.	0.8	22
178	Stationary states in Langevin dynamics under asymmetric Levy noises. Physical Review E, 2007, 76, 041122.	0.8	55
179	Finite-size effects in Barabási-Albert growing networks. Physical Review E, 2007, 75, 056114.	0.8	17
180	Dispersionless Transport in a Washboard Potential. Physical Review Letters, 2007, 98, 020602.	2.9	60

#	ARTICLE	IF	CITATIONS
181	Fractal properties of anomalous diffusion in intermittent maps. <i>Physical Review E</i> , 2007, 75, 036213.	0.8	27
182	Continuum description of a contact infection spread in a SIR model. <i>Mathematical Biosciences</i> , 2007, 208, 205-215.	0.9	31
183	Optimal foraging by zooplankton within patches: The case of <i>Daphnia</i> . <i>Mathematical Biosciences</i> , 2007, 207, 165-188.	0.9	47
184	Enzymatic Chain Scission Kinetics of Poly( $\mu$ -caprolactone) Monolayers. <i>Langmuir</i> , 2007, 23, 12202-12207.	1.6	40
185	Interspike interval densities of resonate and fire neurons. <i>BioSystems</i> , 2007, 89, 63-68.	0.9	21
186	Continuous-time random walks in an oscillating field: Field-induced dispersion and the death of linear response. <i>Chaos, Solitons and Fractals</i> , 2007, 34, 81-86.	2.5	14
187	On Hilfer's objection to the fractional time diffusion equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 373, 231-236.	1.2	8
188	Self-Sorting of Polyelectrolyte-Amphiphile Complexes on a Graphite Surface. <i>Macromolecules</i> , 2007, 40, 5182-5186.	2.2	6
189	Blowing DNA Bubbles. <i>Nano Letters</i> , 2006, 6, 2561-2566.	4.5	18
190	First passage time densities in non-Markovian models with subthreshold oscillations. <i>Europhysics Letters</i> , 2006, 73, 691-697.	0.7	22
191	Diffusion mechanisms of localised knots along a polymer. <i>Europhysics Letters</i> , 2006, 76, 696-702.	0.7	67
192	Reaction-subdiffusion equations. <i>Physical Review E</i> , 2006, 73, 031102.	0.8	144
193	Linear response to perturbation of nonexponential renewal process: A generalized master equation approach. <i>Physical Review E</i> , 2006, 73, 067102.	0.8	21
194	Field-Induced Dispersion in Subdiffusion. <i>Physical Review Letters</i> , 2006, 97, 140602.	2.9	150
195	First passage time densities in resonate-and-fire models. <i>Physical Review E</i> , 2006, 73, 031108.	0.8	50
196	Understanding anomalous transport in intermittent maps: From continuous-time random walks to fractals. <i>Europhysics Letters</i> , 2005, 70, 63-69.	0.7	16
197	SanchoetAl.Reply:. <i>Physical Review Letters</i> , 2005, 94, .	2.9	18
198	First passage time of Nexcluded-volume particles on a line. <i>Physical Review E</i> , 2005, 72, 041102.	0.8	30

#	ARTICLE	IF	CITATIONS
199	ANOMALOUS DIFFUSION AND GENERALIZED DIFFUSION EQUATIONS. Fluctuation and Noise Letters, 2005, 05, L275-L282.	1.0	2
200	Anomalous diffusion spreads its wings. Physics World, 2005, 18, 29-32.	0.0	357
201	From diffusion to anomalous diffusion: A century after Einstein's Brownian motion. Chaos, 2005, 15, 026103.	1.0	367
202	Fractional diffusion in inhomogeneous media. Journal of Physics A, 2005, 38, L679-L684.	1.6	232
203	Steady-State Luminescence of Polymers. Macromolecules, 2005, 38, 3504-3510.	2.2	2
204	Target Search of N Sliding Proteins on a DNA. Biophysical Journal, 2005, 89, 895-902.	0.2	95
205	Periodic driving controls random motion of Brownian steppers. Journal of Physics Condensed Matter, 2005, 17, S3661-S3672.	0.7	8
206	Non-uniqueness of the first passage time density of Lévy random processes. Journal of Physics A, 2004, 37, L609-L615.	1.6	30
207	Spectra and waiting-time densities in firing resonant and nonresonant neurons. Physical Review E, 2004, 70, 031916.	0.8	13
208	Comment on "Anomalous Heat Conduction and Anomalous Diffusion in One-Dimensional Systems". Physical Review Letters, 2004, 92, 089401; author reply 089402.	2.9	6
209	From subdiffusion to superdiffusion of particles on solid surfaces. Physical Review E, 2004, 70, 051104.	0.8	91
210	Fractional diffusion equation for a power-law-truncated Lévy process. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 245-251.	1.2	98
211	Diffusion on a Solid Surface: Anomalous is Normal. Physical Review Letters, 2004, 92, 250601.	2.9	176
212	SIS epidemics with household structure: the self-consistent field method. Mathematical Biosciences, 2004, 190, 71-85.	0.9	37
213	Reshuffling scale-free networks: From random to assortative. Physical Review E, 2004, 70, 066102.	0.8	194
214	Competition between Lévy jumps and continuous drift. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 46-52.	1.2	12
215	Epidemics, disorder, and percolation. Physica A: Statistical Mechanics and Its Applications, 2003, 325, 1-8.	1.2	61
216	Towards deterministic equations for Lévy walks: The fractional material derivative. Physical Review E, 2003, 67, 010101.	0.8	89

#	ARTICLE	IF	CITATIONS
217	Cyclization of a Polymer: First-Passage Problem for a Non-Markovian Process. <i>Physical Review Letters</i> , 2003, 90, 080601.	2.9	82
218	Correlations in scale-free networks: Tomography and percolation. <i>Physical Review E</i> , 2003, 68, 036119.	0.8	22
219	Fractional Fokker-Planck equation for ultraslow kinetics. <i>Europhysics Letters</i> , 2003, 63, 326-332.	0.7	130
220	Walking on ratchets: a model of two Brownian motors with bistable coupling. , 2003, 5114, 20.		3
221	Solutions of a class of non-Markovian Fokker-Planck equations. <i>Physical Review E</i> , 2002, 66, 041101.	0.8	82
222	Retarding subdiffusion and accelerating superdiffusion governed by distributed-order fractional diffusion equations. <i>Physical Review E</i> , 2002, 66, 046129.	0.8	329
223	Statistics of two-particle dispersion in two-dimensional turbulence. <i>Physics of Fluids</i> , 2002, 14, 3224-3232.	1.6	73
224	Evolving networks with disadvantaged long-range connections. <i>Physical Review E</i> , 2002, 66, 026118.	0.8	82
225	Geography in a scale-free network model. <i>Physical Review E</i> , 2002, 66, 056105.	0.8	113
226	Relative Dispersion in Fully Developed Turbulence: The Richardson's Law and Intermittency Corrections. <i>Physical Review Letters</i> , 2002, 88, 094501.	2.9	140
227	Fractional Kinetics. <i>Physics Today</i> , 2002, 55, 48-54.	0.3	574
228	Superdiffusive Klein-Kramers equation: Normal and anomalous time evolution and Lévy walk moments. <i>Europhysics Letters</i> , 2002, 58, 482-488.	0.7	40
229	Percolation on heterogeneous networks as a model for epidemics. <i>Mathematical Biosciences</i> , 2002, 180, 293-305.	0.9	188
230	Efficiency of Rectification: Reversible vs. Irreversible Regimes. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
231	Dynamics of annealed systems under external fields: CTRW and the fractional Fokker-Planck equations. <i>Europhysics Letters</i> , 2001, 56, 175-180.	0.7	37
232	Directed particle diffusion under "burnt bridges" conditions. <i>Physical Review E</i> , 2001, 64, 011102.	0.8	47
233	Do strange kinetics imply unusual thermodynamics?. <i>Physical Review E</i> , 2001, 64, 021107.	0.8	32
234	Cyclization of a polymer with charged reactive end groups. <i>Journal of Chemical Physics</i> , 2001, 114, 5043-5048.	1.2	18

#	ARTICLE	IF	CITATIONS
235	Disorder and plasticity in the fragmentation of coatings. <i>Physical Review E</i> , 2001, 64, 016109.	0.8	8
236	Thermodynamics and fractional Fokker-Planck equations. <i>Physical Review E</i> , 2001, 63, 056111.	0.8	81
237	Irreversible and reversible modes of operation of deterministic ratchets. <i>Physical Review E</i> , 2001, 63, 021107.	0.8	24
238	Relaxation properties of small-world networks. <i>Physical Review E</i> , 2000, 62, 4405-4408.	0.8	71
239	Two scaling domains in multiple cracking phenomena. <i>Physical Review E</i> , 2000, 62, 7807-7810.	0.8	26
240	Front propagation in one-dimensional autocatalytic reactions: The breakdown of the classical picture at small particle concentrations. <i>Physical Review E</i> , 2000, 62, 141-145.	0.8	18
241	Small-world Rouse networks as models of cross-linked polymers. <i>Journal of Chemical Physics</i> , 2000, 113, 7652-7655.	1.2	52
242	Particle dispersion in synthetic turbulent flows. <i>Physical Review E</i> , 2000, 62, 4997-5005.	0.8	4
243	Universal scaling and nonlinearity in surface layer fragmentation. <i>Physical Review E</i> , 2000, 61, 3216-3219.	0.8	12
244	Ballistic versus diffusive pair dispersion in the Richardson regime. <i>Physical Review E</i> , 2000, 61, 2717-2722.	0.8	52
245	LÃ©vy flights from a continuous-time process. <i>Physical Review E</i> , 2000, 63, 011104.	0.8	113
246	Scaling Laws in the Fragmentation of Disordered Layers. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3881-3886.	1.2	1
247	A perturbation approach to transport in discrete ratchet systems. <i>Journal of Physics A</i> , 1999, 32, 2541-2550.	1.6	13
248	An analysis of disorder in thin silicon oxide coatings. <i>Europhysics Letters</i> , 1999, 48, 280-285.	0.7	13
249	Evaporation and coarsening dynamics with open boundaries. <i>Physical Review E</i> , 1999, 59, 189-193.	0.8	1
250	Front propagation in the one-dimensional autocatalytic $A+B \rightarrow 2A$ reaction with decay. <i>Physical Review E</i> , 1999, 59, 2561-2565.	0.8	3
251	Dispersion of passive particles by a quasi-two-dimensional turbulent flow. <i>Physical Review E</i> , 1999, 59, 5412-5416.	0.8	8
252	Relation between the probability density and other properties of a stationary random process. <i>Physical Review E</i> , 1999, 60, 3402-3404.	0.8	6

#	ARTICLE	IF	CITATIONS
253	Patterns of fragmentation for polymer coatings. Journal of Macromolecular Science - Physics, 1999, 38, 971-980.	0.4	13
254	Reversible fluctuation rectifier. Physical Review E, 1999, 60, 4946-4949.	0.8	26
255	Two-particle dispersion by correlated random velocity fields. Physical Review E, 1999, 60, 5528-5532.	0.8	25
256	Modeling coatings under substrate compression. Physical Review B, 1999, 59, 8541-8550.	1.1	3
257	Study of a bimolecular annihilation process for coarsening reactants. Journal of Chemical Physics, 1999, 110, 6458-6462.	1.2	0
258	Special facets of diffusion and energy transfer in macromolecular systems. European Physical Journal D, 1998, 48, 487-493.	0.4	2
259	Excitation Trapping in Dynamically Disordered Polymers. Macromolecules, 1998, 31, 2521-2526.	2.2	15
260	Anomalous transport in external fields: Continuous time random walks and fractional diffusion equations extended. Physical Review E, 1998, 58, 1621-1633.	0.8	196
261	On the energetics of a nonlinear system rectifying thermal fluctuations. Europhysics Letters, 1998, 44, 278-283.	0.7	39
262	Discreteness effects on the front propagation in the $A + B \rightarrow 2A$ reaction in 3 dimensions. Europhysics Letters, 1998, 44, 7-12.	0.7	19
263	Competitive evaporation in arrays of droplets. Physical Review E, 1998, 57, 6198-6201.	0.8	15
264	Fragmentation of viscoelastic surface layers. Europhysics Letters, 1997, 40, 275-280.	0.7	16
265	Patterns of motion for random walkers under holonomic constraints. Journal of Physics A, 1997, 30, 5735-5742.	1.6	1
266	Dynamics of a polyampholyte hooked around an obstacle. Physical Review E, 1997, 56, R2390-R2393.	0.8	22
267	Spatial organization in the $A+B \rightarrow O$ reaction under confined-scale mixing. Journal of Chemical Physics, 1997, 107, 843-848.	1.2	15
268	Fluctuation-Dominated Kinetics under Stirring. Physical Review Letters, 1997, 78, 741-744.	2.9	25
269	Front form and velocity in a one-dimensional autocatalytic $A+B \rightarrow 2A$ reaction. Physical Review E, 1997, 56, 4130-4134.	0.8	16
270	Paradoxal Diffusion in Chemical Space for Nearest-Neighbor Walks over Polymer Chains. Physical Review Letters, 1997, 79, 857-860.	2.9	124



#	ARTICLE	IF	CITATIONS
271	Exact enumeration of all conformations of a heteropolymer chain in a prescribed, non-compact volume. Journal of Chemical Physics, 1997, 106, 7829-7833.	1.2	5
272	Non-equilibrium directed diffusion and inherently irreversible heat engines. Journal of Physics A, 1997, 30, 3021-3027.	1.6	33
273	Spatial correlations and cross sections of clusters in the $A+B \rightarrow O$ reaction. Physical Review E, 1996, 53, 3167-3172.	0.8	13
274	Bistability of Polymers in Pores. Macromolecules, 1996, 29, 4777-4781.	2.2	3
275	Statistical features in the lakes-straits model and the influence of hernias. Electrophoresis, 1996, 17, 1060-1064.	1.3	4
276	Kinetics of the $A+B \rightarrow O$ reaction under steady and turbulent flows. Journal of Chemical Physics, 1996, 105, 10925-10933.	1.2	13
277	Patterns and scaling in surface fragmentation processes. Physical Review E, 1996, 54, 4293-4298.	0.8	62
278	Fluctuation-dominated $A+B \rightarrow O$ kinetics under short-ranged interparticle interactions. Journal of Chemical Physics, 1996, 105, 6304-6314.	1.2	10
279	Front Propagation and Local Ordering in One-Dimensional Irreversible Autocatalytic Reactions. Physical Review Letters, 1996, 77, 4462-4465.	2.9	38
280	Simulations of Chemical Reactions. , 1996, , 102-120.		2
281	Tension and mobility of a DNA fragment in the lakes-straits model. Macromolecular Theory and Simulations, 1995, 4, 145-154.	0.6	5
282	Mobility and lifetime of negative charges in liquid H <sub>2</sub> . European Physical Journal B, 1995, 98, 437-438.	0.6	1
283	Continuous-time random walk of a rigid triangle. Journal of Physics A, 1995, 28, 6645-6653.	1.6	6
284	A dumbbell's random walk in continuous time. Journal of Physics A, 1994, 27, 7733-7738.	1.6	5
285	Memory Effects in Diffusion-Controlled Reactions. Europhysics Letters, 1994, 27, 495-500.	0.7	4
286	Kinetics in coagulation-annihilation processes. Physical Review E, 1994, 50, 2335-2338.	0.8	24
287	The mobility of negative charges in liquid hydrogen. Journal of Low Temperature Physics, 1994, 95, 683-694.	0.6	4
288	The $A + B \rightarrow O$ Reaction under Short-Range Interactions. The Journal of Physical Chemistry, 1994, 98, 7256-7259.	2.9	12

#	ARTICLE	IF	CITATIONS
289	Models for cracking of polymer coatings. <i>Macromolecular Symposia</i> , 1994, 81, 235-248.	0.4	8
290	Inhomogeneous broadening of electronic transitions in a liquid helium bubble: The role of shape fluctuations. <i>Journal of Low Temperature Physics</i> , 1993, 90, 319-330.	0.6	22
291	Kinetic Aspects of Interacting Reacting Species. <i>Europhysics Letters</i> , 1993, 21, 885-890.	0.7	11
292	Statistical Model for Surface Fracture. <i>Europhysics Letters</i> , 1993, 22, 487-492.	0.7	27
293	Analysis of a one-dimensional fracture model. <i>Journal of Physics A</i> , 1993, 26, 4521-4537.	1.6	27
294	Suppression of Fluctuation-Dominated Kinetics by Mixing. , 1992, , 53-65.		1
295	Reactions under mixing in viscous polymeric media. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991, 50, 19-29.	0.6	0
296	Fluctuation-dominated kinetics in the $a+b\rightarrow 0$ reaction between immobile particles. <i>Journal of Statistical Physics</i> , 1991, 65, 849-857.	0.5	3
297	Reactions in systems with mixing. <i>Journal of Physics A</i> , 1991, 24, 3687-3700.	1.6	21
298	Diffusion-controlled reaction $A+B\rightarrow 0$ in one dimension: The role of particle mobilities and the diffusion-equation approach. <i>Physical Review A</i> , 1991, 44, 2388-2393.	1.0	40
299	Diffusion-controlled reaction $A+B\rightarrow 0$ on Peano curves. <i>Physical Review A</i> , 1991, 43, 5698-5701.	1.0	4
300	Distribution of striation thicknesses in reacting lamellar systems. <i>Physical Review A</i> , 1991, 43, 6545-6549.	1.0	28
301	Mixing effects in the $A+B\rightarrow 0$ reaction-diffusion scheme. <i>Physical Review Letters</i> , 1991, 66, 1942-1945.	2.9	34
302	Diffusion-controlled reactions in lamellar systems. <i>Physical Review A</i> , 1991, 43, 2714-2719.	1.0	39
303	Structure of Layered Systems Under Reactions. , 1991, , 203-206.		0
304	Fluctuation statistics in the diffusion-limited $A+B\rightarrow 0$ reaction. <i>Physical Review A</i> , 1990, 42, 7075-7079.	1.0	21
305	Surface of liquid helium as a trap for rydberg atom. Mechanisms of relaxation. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1989, 14, 173-177.	1.0	4
306	Localisation in the Anderson model with correlated site energies. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 893-899.	1.5	2

#	ARTICLE	IF	CITATIONS
307	Anomalous Heat Conduction. , 0, , 293-321.		3
308	Anomalous Relaxation in Complex Systems: From Stretched to Compressed Exponentials. , 0, , 327-345.		22
309	Anomalous Transport in Glass-Forming Liquids. , 0, , 347-366.		0
310	Money Circulation Scienceâ€™ Fractional Dynamics in Human Mobility. , 0, , 459-483.		3
311	Anomalous Molecular Displacement Laws in Porous Media and Polymers Probed by Nuclear Magnetic Resonance Techniques. , 0, , 485-518.		4
312	Paradigm Shift of the Molecular Dynamics Concept in the Cell Membrane: High-Speed Single-Molecule Tracking Revealed the Partitioning of the Cell Membrane. , 0, , 545-574.		7
313	Random Processes with Infinite Moments. , 0, , 75-91.		1
314	Continuous Time Random Walk, Mittag-Leffler Waiting Time and Fractional Diffusion: Mathematical Aspects. , 0, , 93-127.		32
315	Statistics and the single molecule. Physics Magazine, 0, 1, .	0.1	17
316	Path-integral formulation of spreading processes in complex networks. European Physical Journal: Special Topics, 0, , 1.	1.2	2
317	Detecting temporal correlations in hopping dynamics in Lennardâ€™Jones liquids. Journal of Physics A: Mathematical and Theoretical, 0, , .	0.7	2