Ralf Metzler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The random walk's guide to anomalous diffusion: a fractional dynamics approach. Physics Reports, 2000, 339, 1-77.	25.6	7,039
2	The restaurant at the end of the random walk: recent developments in the description of anomalous transport by fractional dynamics. Journal of Physics A, 2004, 37, R161-R208.	1.6	1,869
3	Anomalous diffusion models and their properties: non-stationarity, non-ergodicity, and ageing at the centenary of single particle tracking. Physical Chemistry Chemical Physics, 2014, 16, 24128-24164.	2.8	1,286
4	Anomalous Diffusion and Relaxation Close to Thermal Equilibrium: A Fractional Fokker-Planck Equation Approach. Physical Review Letters, 1999, 82, 3563-3567.	7.8	678
5	From continuous time random walks to the fractional Fokker-Planck equation. Physical Review E, 2000, 61, 132-138.	2.1	621
6	<i>In Vivo</i> Anomalous Diffusion and Weak Ergodicity Breaking of Lipid Granules. Physical Review Letters, 2011, 106, 048103.	7.8	553
7	Generalized viscoelastic models: their fractional equations with solutions. Journal of Physics A, 1995, 28, 6567-6584.	1.6	485
8	Strange kinetics of single molecules in living cells. Physics Today, 2012, 65, 29-35.	0.3	476
9	Random Time-Scale Invariant Diffusion and Transport Coefficients. Physical Review Letters, 2008, 101, 058101.	7.8	464
10	Boundary value problems for fractional diffusion equations. Physica A: Statistical Mechanics and Its Applications, 2000, 278, 107-125.	2.6	442
11	Relaxation in filled polymers: A fractional calculus approach. Journal of Chemical Physics, 1995, 103, 7180-7186.	3.0	408
12	Fractional model equation for anomalous diffusion. Physica A: Statistical Mechanics and Its Applications, 1994, 211, 13-24.	2.6	403
13	Lévy flights in external force fields: Langevin and fractional Fokker-Planck equations and their solutions. Physical Review E, 1999, 59, 2736-2745.	2.1	336
14	The generalized Cattaneo equation for the description of anomalous transport processes. Journal of Physics A, 1997, 30, 7277-7289.	1.6	326
15	Single particle tracking in systems showing anomalous diffusion: the role of weak ergodicity breaking. Physical Chemistry Chemical Physics, 2011, 13, 1800.	2.8	325
16	Deriving fractional Fokker-Planck equations from a generalised master equation. Europhysics Letters, 1999, 46, 431-436.	2.0	267
17	Physical pictures of transport in heterogeneous media: Advection-dispersion, random-walk, and fractional derivative formulations. Water Resources Research, 2002, 38, 9-1-9-12.	4.2	264
18	Anomalous Diffusion of Phospholipids and Cholesterols in a Lipid Bilayer and its Origins. Physical Review Letters, 2012, 109, 188103.	7.8	257

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19	Anomalous diffusion and ergodicity breaking in heterogeneous diffusion processes. New Journal of Physics, 2013, 15, 083039.	2.9	245
20	Brownian yet Non-Gaussian Diffusion: From Superstatistics to Subordination of Diffusing Diffusivities. Physical Review X, 2017, 7, .	8.9	235
21	Lévy strategies in intermittent search processes are advantageous. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11055-11059.	7.1	220
22	Fractional Brownian motion and motion governed by the fractional Langevin equation in confined geometries. Physical Review E, 2010, 81, 021103.	2.1	216
23	Optimal Target Search on a Fast-Folding Polymer Chain with Volume Exchange. Physical Review Letters, 2005, 95, 260603.	7.8	207
24	Space- and time-fractional diffusion and wave equations, fractional Fokker–Planck equations, and physical motivation. Chemical Physics, 2002, 284, 67-90.	1.9	204
25	Non-Brownian diffusion in lipid membranes: Experiments and simulations. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2451-2467.	2.6	203
26	Anomalous transport in external fields: Continuous time random walks and fractional diffusion equations extended. Physical Review E, 1998, 58, 1621-1633.	2.1	196
27	Manipulation and Motion of Organelles and Single Molecules in Living Cells. Chemical Reviews, 2017, 117, 4342-4375.	47.7	196
28	Quantitative Analysis of Single Particle Trajectories: Mean Maximal Excursion Method. Biophysical Journal, 2010, 98, 1364-1372.	0.5	188
29	Anomalous diffusion and power-law relaxation of the time averaged mean squared displacement in worm-like micellar solutions. New Journal of Physics, 2013, 15, 045011.	2.9	186
30	First-Passage Phenomena and Their Applications. , 2014, , .		186
31	How DNA coiling enhances target localization by proteins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15738-15742.	7.1	181
32	Facilitated diffusion with DNA coiling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8204-8208.	7.1	176
33	Polymer translocation: the first two decades and the recent diversification. Soft Matter, 2014, 10, 9016-9037.	2.7	171
34	The dynamical foundation of fractal stream chemistry: The origin of extremely long retention times. Geophysical Research Letters, 2002, 29, 5-1-5-4.	4.0	170
35	Anomalous and normal diffusion of proteins and lipids in crowded lipid membranes. Faraday Discussions, 2013, 161, 397-417.	3.2	170
36	Scaled Brownian motion: a paradoxical process with a time dependent diffusivity for the description of anomalous diffusion. Physical Chemistry Chemical Physics, 2014, 16, 15811-15817.	2.8	170

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37	Lévy flights do not always optimize random blind search for sparse targets. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2931-2936.	7.1	167
38	Fractional diffusion and LÃ $ m ilde{O}$ vy stable processes. Physical Review E, 1997, 55, 99-106.	2.1	166
39	Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic Acanthamoeba castellanii. Scientific Reports, 2015, 5, 11690.	3.3	159
40	Subdiffusive transport close to thermal equilibrium: From the Langevin equation to fractional diffusion. Physical Review E, 2000, 61, 6308-6311.	2.1	156
41	Protein Crowding in Lipid Bilayers Gives Rise to Non-Gaussian Anomalous Lateral Diffusion of Phospholipids and Proteins. Physical Review X, 2016, 6, .	8.9	152
42	Fractional Dynamics. , 2011, , .		149
43	Aging and nonergodicity beyond the Khinchin theorem. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13228-13233.	7.1	148
44	First passage and arrival time densities for Lévy flights and the failure of the method of images. Journal of Physics A, 2003, 36, L537-L544.	1.6	134
45	From stretched exponential to inverse power-law: fractional dynamics, Cole–Cole relaxation processes, and beyond. Journal of Non-Crystalline Solids, 2002, 305, 81-87.	3.1	130
46	Stationary states of non-linear oscillators driven by Lévy noise. Chemical Physics, 2002, 284, 233-251.	1.9	129
47	Lévy Flights in a Steep Potential Well. Journal of Statistical Physics, 2004, 115, 1505-1535.	1.2	125
48	Anomalous, non-Gaussian tracer diffusion in crowded two-dimensional environments. New Journal of Physics, 2016, 18, 013027.	2.9	125
49	First passages in bounded domains: When is the mean first passage time meaningful?. Physical Review E, 2012, 86, 031143.	2.1	124
50	Bifurcation, bimodality, and finite variance in confined Lévy flights. Physical Review E, 2003, 67, 010102.	2.1	123
51	Non-Gaussian, non-ergodic, and non-Fickian diffusion of tracers in mucin hydrogels. Soft Matter, 2019, 15, 2526-2551.	2.7	120
52	ON THE RIEMANN-LIOUVILLE FRACTIONAL CALCULUS AND SOME RECENT APPLICATIONS. Fractals, 1995, 03, 557-566.	3.7	119
53	Driven polymer translocation through nanopores: Slow-vsfast dynamics. Europhysics Letters, 2009, 88, 68006.	2.0	115
54	Population splitting, trapping, and non-ergodicity in heterogeneous diffusion processes. Physical Chemistry Chemical Physics, 2013, 15, 20220.	2.8	114

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55	Leapover Lengths and First Passage Time Statistics for Lévy Flights. Physical Review Letters, 2007, 99, 160602.	7.8	113
56	When Translocation Dynamics Becomes Anomalous. Biophysical Journal, 2003, 85, 2776-2779.	0.5	112
57	Distance Matters: The Impact of Gene Proximity in Bacterial Gene Regulation. Physical Review Letters, 2013, 110, 198101.	7.8	112
58	Subdiffusion and Weak Ergodicity Breaking in the Presence of a Reactive Boundary. Physical Review Letters, 2007, 98, 200603.	7.8	111
59	Non-universal tracer diffusion in crowded media of non-inert obstacles. Physical Chemistry Chemical Physics, 2015, 17, 1847-1858.	2.8	111
60	Random diffusivity from stochastic equations: comparison of two models for Brownian yet non-Gaussian diffusion. New Journal of Physics, 2018, 20, 043044.	2.9	111
61	Fractal Dimension and Localization of DNA Knots. Physical Review Letters, 2007, 98, 058102.	7.8	109
62	Aging Effects and Population Splitting in Single-Particle Trajectory Averages. Physical Review Letters, 2013, 110, 020602.	7.8	109
63	Objective comparison of methods to decode anomalous diffusion. Nature Communications, 2021, 12, 6253.	12.8	109
64	Anomalous diffusion in correlated continuous time random walks. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 082002.	2.1	108
65	From a Generalized Chapmanâ^'Kolmogorov Equation to the Fractional Kleinâ^'Kramers Equationâ€. Journal of Physical Chemistry B, 2000, 104, 3851-3857.	2.6	107
66	Inequivalence of time and ensemble averages in ergodic systems: Exponential versus power-law relaxation in confinement. Physical Review E, 2012, 85, 021147.	2.1	104
67	Generalized Facilitated Diffusion Model for DNA-Binding Proteins with Search and Recognition States. Biophysical Journal, 2012, 102, 2321-2330.	0.5	103
68	Aging Renewal Theory and Application to Random Walks. Physical Review X, 2014, 4, .	8.9	102
69	Universal Proximity Effect in Target Search Kinetics in the Few-Encounter Limit. Physical Review X, 2016, 6, .	8.9	102
70	Bayesian analysis of single-particle tracking data using the nested-sampling algorithm: maximum-likelihood model selection applied to stochastic-diffusivity data. Physical Chemistry Chemical Physics, 2018, 20, 29018-29037.	2.8	99
71	Fractional relaxation processes and fractional rheological models for the description of a class of viscoelastic materials. International Journal of Plasticity, 2003, 19, 941-959.	8.8	97
72	Target Search of N Sliding Proteins on a DNA. Biophysical Journal, 2005, 89, 895-902.	0.5	95

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73	Generalized Chapman-Kolmogorov equation:â€,â€,A unifying approach to the description of anomalous transport in external fields. Physical Review E, 2000, 62, 6233-6245.	2.1	93
74	Strong defocusing of molecular reaction times results from an interplay of geometry and reaction control. Communications Chemistry, 2018, 1, .	4.5	93
75	Equilibrium Shapes of Flat Knots. Physical Review Letters, 2002, 88, 188101.	7.8	92
76	Noisy continuous time random walks. Journal of Chemical Physics, 2013, 139, 121916.	3.0	90
77	Towards deterministic equations for Lévy walks: The fractional material derivative. Physical Review E, 2003, 67, 010101.	2.1	89
78	Particle invasion, survival, and non-ergodicity in 2D diffusion processes with space-dependent diffusivity. Soft Matter, 2014, 10, 1591-1601.	2.7	88
79	First passage time distribution in heterogeneity controlled kinetics: going beyond the mean first passage time. Scientific Reports, 2016, 6, 20349.	3.3	87
80	Fractional diffusion equation with a generalized Riemann–Liouville time fractional derivative. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 255203.	2.1	86
81	Kinetics of polymer looping with macromolecular crowding: effects of volume fraction and crowder size. Soft Matter, 2015, 11, 472-488.	2.7	85
82	Nonergodicity, fluctuations, and criticality in heterogeneous diffusion processes. Physical Review E, 2014, 90, 012134.	2.1	83
83	Distributed-order diffusion equations and multifractality: Models and solutions. Physical Review E, 2015, 92, 042117.	2.1	83
84	Diffusion and Fokker-Planck-Smoluchowski Equations with Generalized Memory Kernel. Fractional Calculus and Applied Analysis, 2015, 18, 1006-1038.	2.2	83
85	Fractional diffusion, waiting-time distributions, and Cattaneo-type equations. Physical Review E, 1998, 57, 6409-6414.	2.1	80
86	Diffusion on random-site percolation clusters: Theory and NMR microscopy experiments with model objects. Physical Review E, 2002, 65, 021112.	2.1	80
87	Finite-Time Effects and Ultraweak Ergodicity Breaking in Superdiffusive Dynamics. Physical Review Letters, 2013, 110, 020603.	7.8	79
88	Underdamped scaled Brownian motion: (non-)existence of the overdamped limit in anomalous diffusion. Scientific Reports, 2016, 6, 30520.	3.3	79
89	Crossover from anomalous to normal diffusion: truncated power-law noise correlations and applications to dynamics in lipid bilayers. New Journal of Physics, 2018, 20, 103027.	2.9	79
90	Facilitation of polymer looping and giant polymer diffusivity in crowded solutions of active particles. New Journal of Physics, 2015, 17, 113008.	2.9	77

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91	How Molecular Motors Work in the Crowded Environment of Living Cells: Coexistence and Efficiency of Normal and Anomalous Transport. PLoS ONE, 2014, 9, e91700.	2.5	76
92	From continuous time random walks to the generalized diffusion equation. Fractional Calculus and Applied Analysis, 2018, 21, 10-28.	2.2	76
93	Anomalous transport in disordered systems under the influence of external fields. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 343-350.	2.6	74
94	Bubble dynamics in DNA. Journal of Physics A, 2003, 36, L473-L480.	1.6	73
95	DNA Bubble Dynamics as a Quantum Coulomb Problem. Physical Review Letters, 2007, 98, 070601.	7.8	73
96	Barrier crossing driven by Lévy noise: Universality and the role of noise intensity. Physical Review E, 2007, 75, 041101.	2.1	72
97	Collective dynamics effect transient subdiffusion of inert tracers in flexible gel networks. New Journal of Physics, 2014, 16, 092002.	2.9	72
98	Supercoiling Induces Denaturation Bubbles in Circular DNA. Physical Review Letters, 2010, 105, 208101.	7.8	70
99	Universal Relation between Instantaneous Diffusivity and Radius of Gyration of Proteins in Aqueous Solution. Physical Review Letters, 2021, 126, 128101.	7.8	70
100	In Vivo Facilitated Diffusion Model. PLoS ONE, 2013, 8, e53956.	2.5	70
101	Accelerating Brownian motion: A fractional dynamics approach to fast diffusion. Europhysics Letters, 2000, 51, 492-498.	2.0	69
102	Barrier crossing of a Lévy flight. Europhysics Letters, 2005, 72, 348-354.	2.0	69
103	Diffusion mechanisms of localised knots along a polymer. Europhysics Letters, 2006, 76, 696-702.	2.0	67
104	Correlated continuous-time random walks in external force fields. Physical Review E, 2012, 85, 051103.	2.1	67
105	Anomalous diffusion in time-fluctuating non-stationary diffusivity landscapes. Physical Chemistry Chemical Physics, 2016, 18, 23840-23852.	2.8	67
106	Non-Gaussianity, population heterogeneity, and transient superdiffusion in the spreading dynamics of amoeboid cells. Physical Chemistry Chemical Physics, 2018, 20, 23034-23054.	2.8	67
107	Sequence Sensitivity of Breathing Dynamics in Heteropolymer DNA. Physical Review Letters, 2006, 97, 128105.	7.8	66
108	Polymer Looping Is Controlled by Macromolecular Crowding, Spatial Confinement, and Chain Stiffness. ACS Macro Letters, 2015, 4, 202-206.	4.8	66

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109	Quantifying non-ergodicity of anomalous diffusion with higher order moments. Scientific Reports, 2017, 7, 3878.	3.3	66
110	Diffusion of Integral Membrane Proteins in Protein-Rich Membranes. Journal of Physical Chemistry Letters, 2017, 8, 4308-4313.	4.6	65
111	Spectral Content of a Single Non-Brownian Trajectory. Physical Review X, 2019, 9, .	8.9	65
112	Multiple time scales for dispersive kinetics in early events of peptide folding. Chemical Physics Letters, 1998, 293, 477-484.	2.6	64
113	Superstatistics and non-Gaussian diffusion. European Physical Journal: Special Topics, 2020, 229, 711-728.	2.6	64
114	Fractional Brownian motion with random diffusivity: emerging residual nonergodicity below the correlation time. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 474001.	2.1	64
115	Hierarchies and logarithmic oscillations in the temporal relaxation patterns of proteins and other complex systems. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11085-11089.	7.1	63
116	Aggregate model of liquids. Journal of Chemical Physics, 1997, 107, 8697-8705.	3.0	62
117	Power spectral density of a single Brownian trajectory: what one can and cannot learn from it. New Journal of Physics, 2018, 20, 023029.	2.9	62
118	Denaturation Transition of Stretched DNA. Physical Review Letters, 2008, 100, 018106.	7.8	61
119	Ergodicity breaking, ageing, and confinement in generalized diffusion processes with position and time dependent diffusivity. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P05010.	2.3	61
120	Generalized space–time fractional diffusion equation with composite fractional time derivative. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2527-2542.	2.6	60
121	Mixing and segregation of ring polymers: spatial confinement and molecular crowding effects. New Journal of Physics, 2014, 16, 053047.	2.9	60
122	Gaussianity Fair: The Riddle of Anomalous yet Non-Gaussian Diffusion. Biophysical Journal, 2017, 112, 413-415.	0.5	60
123	Chaperone-assisted translocation. Physical Biology, 2004, 1, 77-88.	1.8	57
124	Analysis of short subdiffusive time series: scatter of the time-averaged mean-squared displacement. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 252001.	2.1	56
125	The diffusion of doxorubicin drug molecules in silica nanoslits is non-Gaussian, intermittent and anticorrelated. Physical Chemistry Chemical Physics, 2020, 22, 27955-27965.	2.8	55
126	Quantifying the non-ergodicity of scaled Brownian motion. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 375002.	2.1	54

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127	First passage and first hitting times of Lévy flights and Lévy walks. New Journal of Physics, 2019, 21, 103028.	2.9	54
128	Some fundamental aspects of Lévy flights. Chaos, Solitons and Fractals, 2007, 34, 129-142.	5.1	53
129	Unexpected crossovers in correlated random-diffusivity processes. New Journal of Physics, 2020, 22, 083041.	2.9	53
130	Kramers-like escape driven by fractional Gaussian noise. Physical Review E, 2010, 81, 041119.	2.1	52
131	Inverted critical adsorption of polyelectrolytes in confinement. Soft Matter, 2015, 11, 4430-4443.	2.7	52
132	Superstatistical generalised Langevin equation: non-Gaussian viscoelastic anomalous diffusion. New Journal of Physics, 2018, 20, 023026.	2.9	52
133	Quantifying non-ergodic dynamics of force-free granular gases. Physical Chemistry Chemical Physics, 2015, 17, 21791-21798.	2.8	51
134	Anomalous diffusion and nonergodicity for heterogeneous diffusion processes with fractional Gaussian noise. Physical Review E, 2020, 102, 012146.	2.1	51
135	Breathing Dynamics in Heteropolymer DNA. Biophysical Journal, 2007, 92, 2674-2684.	0.5	50
136	Bulk-mediated diffusion on a planar surface: Full solution. Physical Review E, 2012, 86, 041101.	2.1	50
137	Quantifying supercoiling-induced denaturation bubbles in DNA. Soft Matter, 2012, 8, 8651.	2.7	50
138	Ultraslow scaled Brownian motion. New Journal of Physics, 2015, 17, 063038.	2.9	50
139	Towards a full quantitative description of single-molecule reaction kinetics in biological cells. Physical Chemistry Chemical Physics, 2018, 20, 16393-16401.	2.8	50
140	Full distribution of first exit times in the narrow escape problem. New Journal of Physics, 2019, 21, 122001.	2.9	50
141	Ageing and confinement in non-ergodic heterogeneous diffusion processes. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 485002.	2.1	49
142	Generalized Diffusionâ^'Advection Schemes and Dispersive Sedimentation: A Fractional Approachâ€. Journal of Physical Chemistry B, 2000, 104, 3858-3865.	2.6	48
143	How Subdiffusion Changes the Kinetics of Binding to a Surface. Biophysical Journal, 2009, 97, 710-721.	0.5	48
144	Microscopic Origin of the Logarithmic Time Evolution of Aging Processes in Complex Systems. Physical Review Letters, 2013, 110, 208301.	7.8	48

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145	Molecular motors pulling cargos in the viscoelastic cytosol: how power strokes beat subdiffusion. Physical Chemistry Chemical Physics, 2014, 16, 16524-16535.	2.8	47
146	First passage time statistics for two-channel diffusion. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 084001.	2.1	47
147	Biased continuous-time random walks for ordinary and equilibrium cases: facilitation of diffusion, ergodicity breaking and ageing. Physical Chemistry Chemical Physics, 2018, 20, 20827-20848.	2.8	47
148	Strange interfacial molecular dynamics. Physics Today, 2019, 72, 48-54.	0.3	47
149	Real sequence effects on the search dynamics of transcription factors on DNA. Scientific Reports, 2015, 5, 10072.	3.3	46
150	Time averaging and emerging nonergodicity upon resetting of fractional Brownian motion and heterogeneous diffusion processes. Physical Review E, 2021, 104, 024105.	2.1	46
151	Natural cutoff in Lévy flights caused by dissipative nonlinearity. Physical Review E, 2005, 72, 010101.	2.1	45
152	Correlation functions for the fractional generalized Langevin equation in the presence of internal and external noise. Journal of Mathematical Physics, 2014, 55, .	1.1	45
153	Severe slowing-down and universality of the dynamics in disordered interacting many-body systems: ageing and ultraslow diffusion. New Journal of Physics, 2014, 16, 113050.	2.9	44
154	Critical adsorption of polyelectrolytes onto charged Janus nanospheres. Physical Chemistry Chemical Physics, 2014, 16, 15539-15550.	2.8	44
155	Directed motion emerging from two coupled random processes: translocation of a chain through a membrane nanopore driven by binding proteins. Journal of Physics Condensed Matter, 2005, 17, S3945-S3964.	1.8	43
156	Anomalous Stochastic Processes in the Fractional Dynamics Framework: Fokker-Planck Equation, Dispersive Transport, and Non-Exponential Relaxation. Advances in Chemical Physics, 2007, , 223-264.	0.3	43
157	Bulk-mediated surface diffusion along a cylinder: Propagators and crossovers. Physical Review E, 2009, 79, 040105.	2.1	43
158	Aging scaled Brownian motion. Physical Review E, 2015, 91, 042107.	2.1	43
159	Beyond monofractional kinetics. Chaos, Solitons and Fractals, 2017, 102, 210-217.	5.1	43
160	Fractional Brownian motion in a finite interval: correlations effect depletion or accretion zones of particles near boundaries. New Journal of Physics, 2019, 21, 022002.	2.9	43
161	Polymer translocation into a fluidic channel through a nanopore. Physical Review E, 2010, 82, 021922.	2.1	42
162	Time averages and their statistical variation for the Ornstein-Uhlenbeck process: Role of initial particle distributions and relaxation to stationarity. Physical Review E, 2018, 98, 022134.	2.1	41

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163	Superdiffusive Klein-Kramers equation: Normal and ano malous time evolution and Lévy walk moments. Europhysics Letters, 2002, 58, 482-488.	2.0	40
164	Aging underdamped scaled Brownian motion: Ensemble- and time-averaged particle displacements, nonergodicity, and the failure of the overdamping approximation. Physical Review E, 2017, 95, 012120.	2.1	40
165	First passage statistics for diffusing diffusivity. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 04LT01.	2.1	40
166	Fractional diffusion: exact representations of spectral functions. Journal of Physics A, 1997, 30, 1089-1093.	1.6	39
167	Stochastic foundation of normal and anomalous Cattaneo-type transport. Physica A: Statistical Mechanics and Its Applications, 1999, 268, 454-468.	2.6	39
168	Kramers' escape problem with anomalous kinetics: non-exponential decay of the survival probability. Chemical Physics Letters, 2000, 321, 238-242.	2.6	38
169	In vivo non-specific binding of λ CI and Cro repressors is significant. FEBS Letters, 2004, 563, 66-68.	2.8	38
170	Fractional calculus approach to the statistical characterization of random variables and vectors. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 909-920.	2.6	38
171	Diffusion inside living human cells. European Physical Journal: Special Topics, 2012, 204, 75-84.	2.6	38
172	Linear response, fluctuation-dissipation, and finite-system-size effects in superdiffusion. Physical Review E, 2013, 88, 012116.	2.1	38
173	Transient aging in fractional Brownian and Langevin-equation motion. Physical Review E, 2013, 88, 062124.	2.1	38
174	Localisation and universal fluctuations in ultraslow diffusion processes. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 492002.	2.1	38
175	Comb Model with Slow and Ultraslow Diffusion. Mathematical Modelling of Natural Phenomena, 2016, 11, 18-33.	2.4	38
176	Anomalous diffusion, nonergodicity, and ageing for exponentially and logarithmically time-dependent diffusivity: striking differences for massive versus massless particles. Journal Physics D: Applied Physics, 2021, 54, 195401.	2.8	38
177	Universality classes for asymptotic behavior of relaxation processes in systems with dynamical disorder: Dynamical generalizations of stretched exponential. Journal of Mathematical Physics, 1996, 37, 2279-2306.	1.1	37
178	Brownian motion and beyond: first-passage, power spectrum, non-Gaussianity, and anomalous diffusion. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 114003.	2.3	37
179	Generalised Geometric Brownian Motion: Theory and Applications to Option Pricing. Entropy, 2020, 22, 1432.	2.2	37
180	Nonergodicity of reset geometric Brownian motion. Physical Review E, 2022, 105, L012106.	2.1	37

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181	Sequence dependence of the binding energy in chaperone-driven polymer translocation through a nanopore. Physical Review E, 2011, 83, 011902.	2.1	36
182	First passage behaviour of fractional Brownian motion in two-dimensional wedge domains. Europhysics Letters, 2011, 94, 20008.	2.0	36
183	Single-trajectory spectral analysis of scaled Brownian motion. New Journal of Physics, 2019, 21, 073043.	2.9	36
184	Entropy Loss in Long-Distance DNA Looping. Biophysical Journal, 2003, 85, 167-173.	0.5	35
185	The chain sucker: Translocation dynamics of a polymer chain into a long narrow channel driven by longitudinal flow. Journal of Chemical Physics, 2011, 134, 135102.	3.0	35
186	First-passage statistics for aging diffusion in systems with annealed and quenched disorder. Physical Review E, 2014, 89, 040101.	2.1	35
187	Time averaging, ageing and delay analysis of financial time series. New Journal of Physics, 2017, 19, 063045.	2.9	35
188	The Future is Noisy: The Role of Spatial Fluctuations in Genetic Switching. Physical Review Letters, 2001, 87, 068103.	7.8	34
189	Velocity and displacement correlation functions for fractional generalized Langevin equations. Fractional Calculus and Applied Analysis, 2012, 15, 426-450.	2.2	34
190	Reflected fractional Brownian motion in one and higher dimensions. Physical Review E, 2020, 102, 032108.	2.1	34
191	Biased continuous time random walks between parallel plates. Physical Review E, 1997, 56, 1445-1454.	2.1	33
192	Probability density of the fractional Langevin equation with reflecting walls. Physical Review E, 2019, 100, 042142.	2.1	32
193	Inertia triggers nonergodicity of fractional Brownian motion. Physical Review E, 2021, 104, 024115.	2.1	32
194	Universal spectral features of different classes of random-diffusivity processes. New Journal of Physics, 2020, 22, 063056.	2.9	32
195	From single-particle stochastic kinetics to macroscopic reaction rates: fastest first-passage time of N random walkers. New Journal of Physics, 2020, 22, 103004.	2.9	32
196	Resetting dynamics in a confining potential. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 505003.	2.1	32
197	Particle dynamics and transport enhancement in a confined channel with position-dependent diffusivity. New Journal of Physics, 2020, 22, 053016.	2.9	31
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