

Ralf Metzler

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370
papers

27,124
citations

74
h-index

156
g-index

400
ext. papers

30,526
ext. citations

3.6
avg, IF

7.7
L-index

#	Paper	IF	Citations
370	The random walk's guide to anomalous diffusion: a fractional dynamics approach. <i>Physics Reports</i> , 2000 , 339, 1-77	27.7	5891
369	The restaurant at the end of the random walk: recent developments in the description of anomalous transport by fractional dynamics. <i>Journal of Physics A</i> , 2004 , 37, R161-R208		1633
368	Anomalous diffusion models and their properties: non-stationarity, non-ergodicity, and ageing at the centenary of single particle tracking. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24128-64	3.6	930
367	Anomalous Diffusion and Relaxation Close to Thermal Equilibrium: A Fractional Fokker-Planck Equation Approach. <i>Physical Review Letters</i> , 1999 , 82, 3563-3567	7.4	590
366	From continuous time random walks to the fractional fokker-planck equation. <i>Physical Review E</i> , 2000 , 61, 132-8	2.4	523
365	In vivo anomalous diffusion and weak ergodicity breaking of lipid granules. <i>Physical Review Letters</i> , 2011 , 106, 048103	7.4	472
364	Generalized viscoelastic models: their fractional equations with solutions. <i>Journal of Physics A</i> , 1995 , 28, 6567-6584		398
363	Random time-scale invariant diffusion and transport coefficients. <i>Physical Review Letters</i> , 2008 , 101, 058101	7.4	394
362	Strange kinetics of single molecules in living cells. <i>Physics Today</i> , 2012 , 65, 29-35	0.9	382
361	Boundary value problems for fractional diffusion equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 278, 107-125	3.3	375
360	Fractional model equation for anomalous diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994 , 211, 13-24	3.3	348
359	Relaxation in filled polymers: A fractional calculus approach. <i>Journal of Chemical Physics</i> , 1995 , 103, 7180-7186	3.7	330
358	Long flights in external force fields: Langevin and fractional Fokker-Planck equations and their solutions. <i>Physical Review E</i> , 1999 , 59, 2736-2745	2.4	295
357	Single particle tracking in systems showing anomalous diffusion: the role of weak ergodicity breaking. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1800-12	3.6	263
356	The generalized Cattaneo equation for the description of anomalous transport processes. <i>Journal of Physics A</i> , 1997 , 30, 7277-7289		262
355	Deriving fractional Fokker-Planck equations from a generalised master equation. <i>Europhysics Letters</i> , 1999 , 46, 431-436	1.6	230
354	Anomalous diffusion of phospholipids and cholesterol in a lipid bilayer and its origins. <i>Physical Review Letters</i> , 2012 , 109, 188103	7.4	211

353	Physical pictures of transport in heterogeneous media: Advection-dispersion, random-walk, and fractional derivative formulations. <i>Water Resources Research</i> , 2002 , 38, 9-1-9-12	5.4	211
352	Optimal target search on a fast-folding polymer chain with volume exchange. <i>Physical Review Letters</i> , 2005 , 95, 260603	7.4	189
351	Levy strategies in intermittent search processes are advantageous. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11055-11059	11.5	186
350	Anomalous diffusion and ergodicity breaking in heterogeneous diffusion processes. <i>New Journal of Physics</i> , 2013 , 15, 083039	2.9	181
349	Anomalous transport in external fields: Continuous time random walks and fractional diffusion equations extended. <i>Physical Review E</i> , 1998 , 58, 1621-1633	2.4	175
348	Fractional Brownian motion and motion governed by the fractional Langevin equation in confined geometries. <i>Physical Review E</i> , 2010 , 81, 021103	2.4	174
347	Non-Brownian diffusion in lipid membranes: Experiments and simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2451-2467	3.8	167
346	Space- and time-fractional diffusion and wave equations, fractional Fokker-Planck equations, and physical motivation. <i>Chemical Physics</i> , 2002 , 284, 67-90	2.3	164
345	Quantitative analysis of single particle trajectories: mean maximal excursion method. <i>Biophysical Journal</i> , 2010 , 98, 1364-72	2.9	162
344	How DNA coiling enhances target localization by proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15738-42	11.5	159
343	Brownian yet Non-Gaussian Diffusion: From Superstatistics to Subordination of Diffusing Diffusivities. <i>Physical Review X</i> , 2017 , 7,	9.1	157
342	Manipulation and Motion of Organelles and Single Molecules in Living Cells. <i>Chemical Reviews</i> , 2017 , 117, 4342-4375	68.1	154
341	Facilitated diffusion with DNA coiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8204-8	11.5	152
340	The dynamical foundation of fractal stream chemistry: The origin of extremely long retention times. <i>Geophysical Research Letters</i> , 2002 , 29, 5-1-5-4	4.9	152
339	Anomalous and normal diffusion of proteins and lipids in crowded lipid membranes. <i>Faraday Discussions</i> , 2013 , 161, 397-417; discussion 419-59	3.6	146
338	Fractional diffusion and Lévy stable processes. <i>Physical Review E</i> , 1997 , 55, 99-106	2.4	144
337	Anomalous diffusion and power-law relaxation of the time averaged mean squared displacement in worm-like micellar solutions. <i>New Journal of Physics</i> , 2013 , 15, 045011	2.9	137
336	First-Passage Phenomena and Their Applications 2014 ,		134

335	Levy flights do not always optimize random blind search for sparse targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2931-6	11.5	133
334	Polymer translocation: the first two decades and the recent diversification. <i>Soft Matter</i> , 2014 , 10, 9016-376	3.76	132
333	Subdiffusive transport close to thermal equilibrium: from the langevin equation to fractional diffusion. <i>Physical Review E</i> , 2000 , 61, 6308-11	2.4	131
332	Aging and nonergodicity beyond the Khinchin theorem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13228-33	11.5	127
331	Scaled Brownian motion: a paradoxical process with a time dependent diffusivity for the description of anomalous diffusion. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15811-7	3.6	125
330	Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic <i>Acanthamoeba castellanii</i> . <i>Scientific Reports</i> , 2015 , 5, 11690	4.9	115
329	First passage and arrival time densities for Lévy flights and the failure of the method of images. <i>Journal of Physics A</i> , 2003 , 36, L537-L544		115
328	Stationary states of non-linear oscillators driven by Lévy noise. <i>Chemical Physics</i> , 2002 , 284, 233-251	2.3	113
327	Protein Crowding in Lipid Bilayers Gives Rise to Non-Gaussian Anomalous Lateral Diffusion of Phospholipids and Proteins. <i>Physical Review X</i> , 2016 , 6,	9.1	110
326	Lévy Flights in a Steep Potential Well. <i>Journal of Statistical Physics</i> , 2004 , 115, 1505-1535	1.5	110
325	Driven polymer translocation through nanopores: Slow-vs.-fast dynamics. <i>Europhysics Letters</i> , 2009 , 88, 68006	1.6	108
324	Bifurcation, bimodality, and finite variance in confined Lévy flights. <i>Physical Review E</i> , 2003 , 67, 010102	2.4	106
323	From stretched exponential to inverse power-law: fractional dynamics, Cole-Cole relaxation processes, and beyond. <i>Journal of Non-Crystalline Solids</i> , 2002 , 305, 81-87	3.9	106
322	Fractional Dynamics 2011 ,		104
321	Fractal dimension and localization of DNA knots. <i>Physical Review Letters</i> , 2007 , 98, 058102	7.4	103
320	First passages in bounded domains: when is the mean first passage time meaningful?. <i>Physical Review E</i> , 2012 , 86, 031143	2.4	101
319	When translocation dynamics becomes anomalous. <i>Biophysical Journal</i> , 2003 , 85, 2776-9	2.9	101
318	Subdiffusion and weak ergodicity breaking in the presence of a reactive boundary. <i>Physical Review Letters</i> , 2007 , 98, 200603	7.4	100

3 ¹⁷	Aging effects and population splitting in single-particle trajectory averages. <i>Physical Review Letters</i> , 2013 , 110, 020602	7.4	99
3 ¹⁶	Anomalous, non-Gaussian tracer diffusion in crowded two-dimensional environments. <i>New Journal of Physics</i> , 2016 , 18, 013027	2.9	96
3 ¹⁵	Distance matters: the impact of gene proximity in bacterial gene regulation. <i>Physical Review Letters</i> , 2013 , 110, 198101	7.4	96
3 ¹⁴	Anomalous diffusion in correlated continuous time random walks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 082002	2	96
3 ¹³	Population splitting, trapping, and non-ergodicity in heterogeneous diffusion processes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20220-35	3.6	95
3 ¹²	From a Generalized Chapman-Kolmogorov Equation to the Fractional Klein-Kramers Equation	3.4	95
	<i>Journal of Physical Chemistry B</i> , 2000 , 104, 3851-3857		
3 ¹¹	Aging Renewal Theory and Application to Random Walks. <i>Physical Review X</i> , 2014 , 4,	9.1	93
3 ¹⁰	Non-universal tracer diffusion in crowded media of non-inert obstacles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1847-58	3.6	92
3 ⁰⁹	Leapover lengths and first passage time statistics for Lévy flights. <i>Physical Review Letters</i> , 2007 , 99, 160602	7.4	92
3 ⁰⁸	Target search of N sliding proteins on a DNA. <i>Biophysical Journal</i> , 2005 , 89, 895-902	2.9	89
3 ⁰⁷	Equilibrium shapes of flat knots. <i>Physical Review Letters</i> , 2002 , 88, 188101	7.4	88
3 ⁰⁶	Inequivalence of time and ensemble averages in ergodic systems: exponential versus power-law relaxation in confinement. <i>Physical Review E</i> , 2012 , 85, 021147	2.4	85
3 ⁰⁵	Fractional relaxation processes and fractional rheological models for the description of a class of viscoelastic materials. <i>International Journal of Plasticity</i> , 2003 , 19, 941-959	7.6	84
3 ⁰⁴	ON THE RIEMANN-LIOUVILLE FRACTIONAL CALCULUS AND SOME RECENT APPLICATIONS. <i>Fractals</i> , 1995 , 03, 557-566	3.2	83
3 ⁰³	Generalized facilitated diffusion model for DNA-binding proteins with search and recognition states. <i>Biophysical Journal</i> , 2012 , 102, 2321-30	2.9	82
3 ⁰²	Random diffusivity from stochastic equations: comparison of two models for Brownian yet non-Gaussian diffusion. <i>New Journal of Physics</i> , 2018 , 20, 043044	2.9	81
3 ⁰¹	Particle invasion, survival, and non-ergodicity in 2D diffusion processes with space-dependent diffusivity. <i>Soft Matter</i> , 2014 , 10, 1591-601	3.6	79
3 ⁰⁰	Towards deterministic equations for Lévy walks: the fractional material derivative. <i>Physical Review E</i> , 2003 , 67, 010101	2.4	78

299	Generalized chapman-kolmogorov equation: A unifying approach to the description of anomalous transport in external fields. <i>Physical Review E</i> , 2000 , 62, 6233-45	2.4	77
298	Kinetics of polymer looping with macromolecular crowding: effects of volume fraction and crowder size. <i>Soft Matter</i> , 2015 , 11, 472-88	3.6	76
297	Noisy continuous time random walks. <i>Journal of Chemical Physics</i> , 2013 , 139, 121916	3.9	75
296	Universal Proximity Effect in Target Search Kinetics in the Few-Encounter Limit. <i>Physical Review X</i> , 2016 , 6,	9.1	74
295	Fractional diffusion equation with a generalized Riemann-Liouville time fractional derivative. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 255203	2	72
294	Fractional diffusion, waiting-time distributions, and Cattaneo-type equations. <i>Physical Review E</i> , 1998 , 57, 6409-6414	2.4	71
293	Strong defocusing of molecular reaction times results from an interplay of geometry and reaction control. <i>Communications Chemistry</i> , 2018 , 1,	6.3	70
292	Diffusion on random-site percolation clusters: theory and NMR microscopy experiments with model objects. <i>Physical Review E</i> , 2002 , 65, 021112	2.4	69
291	Non-Gaussian, non-ergodic, and non-Fickian diffusion of tracers in mucin hydrogels. <i>Soft Matter</i> , 2019 , 15, 2526-2551	3.6	68
290	Finite-time effects and ultraweak ergodicity breaking in superdiffusive dynamics. <i>Physical Review Letters</i> , 2013 , 110, 020603	7.4	68
289	Anomalous transport in disordered systems under the influence of external fields. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 266, 343-350	3.3	68
288	Distributed-order diffusion equations and multifractality: Models and solutions. <i>Physical Review E</i> , 2015 , 92, 042117	2.4	66
287	First passage time distribution in heterogeneity controlled kinetics: going beyond the mean first passage time. <i>Scientific Reports</i> , 2016 , 6, 20349	4.9	66
286	Nonergodicity, fluctuations, and criticality in heterogeneous diffusion processes. <i>Physical Review E</i> , 2014 , 90, 012134	2.4	65
285	How molecular motors work in the crowded environment of living cells: coexistence and efficiency of normal and anomalous transport. <i>PLoS ONE</i> , 2014 , 9, e91700	3.7	65
284	Sequence sensitivity of breathing dynamics in heteropolymer DNA. <i>Physical Review Letters</i> , 2006 , 97, 128105	7.4	65
283	Diffusion and Fokker-Planck-Smoluchowski Equations with Generalized Memory Kernel. <i>Fractional Calculus and Applied Analysis</i> , 2015 , 18, 1006-1038	2.7	64
282	Supercoiling induces denaturation bubbles in circular DNA. <i>Physical Review Letters</i> , 2010 , 105, 208101	7.4	64

281	DNA bubble dynamics as a quantum Coulomb problem. <i>Physical Review Letters</i> , 2007 , 98, 070601	7.4	64
280	Bubble dynamics in DNA. <i>Journal of Physics A</i> , 2003 , 36, L473-L480		64
279	In vivo facilitated diffusion model. <i>PLoS ONE</i> , 2013 , 8, e53956	3.7	63
278	Barrier crossing driven by Lévy noise: universality and the role of noise intensity. <i>Physical Review E</i> , 2007 , 75, 041101	2.4	62
277	Barrier crossing of a Lévy flight. <i>Europhysics Letters</i> , 2005 , 72, 348-354	1.6	62
276	Correlated continuous-time random walks in external force fields. <i>Physical Review E</i> , 2012 , 85, 051103	2.4	60
275	Multiple time scales for dispersive kinetics in early events of peptide folding. <i>Chemical Physics Letters</i> , 1998 , 293, 477-484	2.5	60
274	Collective dynamics effect transient subdiffusion of inert tracers in flexible gel networks. <i>New Journal of Physics</i> , 2014 , 16, 092002	2.9	59
273	Denaturation transition of stretched DNA. <i>Physical Review Letters</i> , 2008 , 100, 018106	7.4	59
272	Diffusion mechanisms of localised knots along a polymer. <i>Europhysics Letters</i> , 2006 , 76, 696-702	1.6	59
271	Hierarchies and logarithmic oscillations in the temporal relaxation patterns of proteins and other complex systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 11085-9	11.5	59
270	Bayesian analysis of single-particle tracking data using the nested-sampling algorithm: maximum-likelihood model selection applied to stochastic-diffusivity data. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29018-29037	3.6	59
269	Polymer Looping Is Controlled by Macromolecular Crowding, Spatial Confinement, and Chain Stiffness. <i>ACS Macro Letters</i> , 2015 , 4, 202-206	6.6	58
268	Crossover from anomalous to normal diffusion: truncated power-law noise correlations and applications to dynamics in lipid bilayers. <i>New Journal of Physics</i> , 2018 , 20, 103027	2.9	58
267	Facilitation of polymer looping and giant polymer diffusivity in crowded solutions of active particles. <i>New Journal of Physics</i> , 2015 , 17, 113008	2.9	56
266	Aggregate model of liquids. <i>Journal of Chemical Physics</i> , 1997 , 107, 8697-8705	3.9	56
265	Accelerating Brownian motion: A fractional dynamics approach to fast diffusion. <i>Europhysics Letters</i> , 2000 , 51, 492-498	1.6	56
264	Underdamped scaled Brownian motion: (non-)existence of the overdamped limit in anomalous diffusion. <i>Scientific Reports</i> , 2016 , 6, 30520	4.9	55

263	Mixing and segregation of ring polymers: spatial confinement and molecular crowding effects. <i>New Journal of Physics</i> , 2014 , 16, 053047	2.9	54
262	Generalized space-time fractional diffusion equation with composite fractional time derivative. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 2527-2542	3.3	54
261	Chaperone-assisted translocation. <i>Physical Biology</i> , 2004 , 1, 77-88	3	54
260	Anomalous diffusion in time-fluctuating non-stationary diffusivity landscapes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23840-52	3.6	54
259	From continuous time random walks to the generalized diffusion equation. <i>Fractional Calculus and Applied Analysis</i> , 2018 , 21, 10-28	2.7	53
258	Quantifying non-ergodicity of anomalous diffusion with higher order moments. <i>Scientific Reports</i> , 2017 , 7, 3878	4.9	50
257	Analysis of short subdiffusive time series: scatter of the time-averaged mean-squared displacement. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 252001	2	49
256	Inverted critical adsorption of polyelectrolytes in confinement. <i>Soft Matter</i> , 2015 , 11, 4430-43	3.6	47
255	Kramers-like escape driven by fractional Gaussian noise. <i>Physical Review E</i> , 2010 , 81, 041119	2.4	46
254	Some fundamental aspects of Lévy flights. <i>Chaos, Solitons and Fractals</i> , 2007 , 34, 129-142	9.3	46
253	Quantifying supercoiling-induced denaturation bubbles in DNA. <i>Soft Matter</i> , 2012 , 8, 8651	3.6	45
252	Breathing dynamics in heteropolymer DNA. <i>Biophysical Journal</i> , 2007 , 92, 2674-84	2.9	45
251	Gaussianity Fair: The Riddle of Anomalous yet Non-Gaussian Diffusion. <i>Biophysical Journal</i> , 2017 , 112, 413-415	2.9	44
250	Microscopic origin of the logarithmic time evolution of aging processes in complex systems. <i>Physical Review Letters</i> , 2013 , 110, 208301	7.4	43
249	Introduction to the Theory of Lévy Flights 129-162		42
248	Spectral Content of a Single Non-Brownian Trajectory. <i>Physical Review X</i> , 2019 , 9,	9.1	41
247	Ergodicity breaking, ageing, and confinement in generalized diffusion processes with position and time dependent diffusivity. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015 , 2015, P05010	1.9	41
246	Diffusion of Integral Membrane Proteins in Protein-Rich Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4308-4313	6.4	41

245	Real sequence effects on the search dynamics of transcription factors on DNA. <i>Scientific Reports</i> , 2015 , 5, 10072	4.9	41
244	Bulk-mediated diffusion on a planar surface: full solution. <i>Physical Review E</i> , 2012 , 86, 041101	2.4	41
243	Correlation functions for the fractional generalized Langevin equation in the presence of internal and external noise. <i>Journal of Mathematical Physics</i> , 2014 , 55, 023301	1.2	40
242	Critical adsorption of polyelectrolytes onto charged Janus nanospheres. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15539-50	3.6	40
241	Anomalous Stochastic Processes in the Fractional Dynamics Framework: Fokker-Planck Equation, Dispersive Transport, and Non-Exponential Relaxation. <i>Advances in Chemical Physics</i> , 2007 , 223-264		40
240	Directed motion emerging from two coupled random processes: translocation of a chain through a membrane nanopore driven by binding proteins. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S3945-64	1.8	40
239	Power spectral density of a single Brownian trajectory: what one can and cannot learn from it. <i>New Journal of Physics</i> , 2018 , 20, 023029	2.9	40
238	Bulk-mediated surface diffusion along a cylinder: Propagators and crossovers. <i>Physical Review E</i> , 2009 , 79, 040105	2.4	39
237	How subdiffusion changes the kinetics of binding to a surface. <i>Biophysical Journal</i> , 2009 , 97, 710-21	2.9	39
236	Molecular motors pulling cargos in the viscoelastic cytosol: how power strokes beat subdiffusion. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16524-35	3.6	38
235	Severe slowing-down and universality of the dynamics in disordered interacting many-body systems: ageing and ultraslow diffusion. <i>New Journal of Physics</i> , 2014 , 16, 113050	2.9	38
234	First passage time statistics for two-channel diffusion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 084001	2	37
233	Ultraslow scaled Brownian motion. <i>New Journal of Physics</i> , 2015 , 17, 063038	2.9	37
232	Generalized Diffusion-Advection Schemes and Dispersive Sedimentation: A Fractional Approach. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 3858-3865	3.4	37
231	Towards a full quantitative description of single-molecule reaction kinetics in biological cells. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16393-16401	3.6	37
230	Non-Gaussianity, population heterogeneity, and transient superdiffusion in the spreading dynamics of amoeboid cells. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23034-23054	3.6	36
229	Ageing and confinement in non-ergodic heterogeneous diffusion processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 485002	2	36
228	Polymer translocation into a fluidic channel through a nanopore. <i>Physical Review E</i> , 2010 , 82, 021922	2.4	36

227	Quantifying non-ergodic dynamics of force-free granular gases. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21791-8	3.6	35
226	Superstatistical generalised Langevin equation: non-Gaussian viscoelastic anomalous diffusion. <i>New Journal of Physics</i> , 2018 , 20, 023026	2.9	35
225	Quantifying the non-ergodicity of scaled Brownian motion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015 , 48, 375002	2	35
224	Localisation and universal fluctuations in ultraslow diffusion processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 492002	2	35
223	Linear response, fluctuation-dissipation, and finite-system-size effects in superdiffusion. <i>Physical Review E</i> , 2013 , 88, 012116	2.4	35
222	Fractional diffusion: exact representations of spectral functions. <i>Journal of Physics A</i> , 1997 , 30, 1089-1093		35
221	Natural cutoff in Lévy flights caused by dissipative nonlinearity. <i>Physical Review E</i> , 2005 , 72, 010101	2.4	35
220	Aging scaled Brownian motion. <i>Physical Review E</i> , 2015 , 91, 042107	2.4	34
219	In vivo non-specific binding of lambda CI and Cro repressors is significant. <i>FEBS Letters</i> , 2004 , 563, 66-8	3.8	34
218	Stochastic foundation of normal and anomalous Cattaneo-type transport. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 268, 454-468	3.3	34
217	Strange interfacial molecular dynamics. <i>Physics Today</i> , 2019 , 72, 48-54	0.9	33
216	The chain sucker: translocation dynamics of a polymer chain into a long narrow channel driven by longitudinal flow. <i>Journal of Chemical Physics</i> , 2011 , 134, 135102	3.9	33
215	Biased continuous time random walks between parallel plates. <i>Physical Review E</i> , 1997 , 56, 1445-1454	2.4	33
214	Entropy loss in long-distance DNA looping. <i>Biophysical Journal</i> , 2003 , 85, 167-73	2.9	33
213	The future is noisy: the role of spatial fluctuations in genetic switching. <i>Physical Review Letters</i> , 2001 , 87, 068103	7.4	33
212	First passage and first hitting times of Lévy flights and Lévy walks. <i>New Journal of Physics</i> , 2019 , 21, 103028	2.9	32
211	Transient aging in fractional Brownian and Langevin-equation motion. <i>Physical Review E</i> , 2013 , 88, 062124	2.4	32
210	First passage behaviour of fractional Brownian motion in two-dimensional wedge domains. <i>Europhysics Letters</i> , 2011 , 94, 20008	1.6	32

209	Superdiffusive Klein-Kramers equation: Normal and anomalous time evolution and Lévy walk moments. <i>Europhysics Letters</i> , 2002 , 58, 482-488	1.6	32
208	Kramers' escape problem with anomalous kinetics: non-exponential decay of the survival probability. <i>Chemical Physics Letters</i> , 2000 , 321, 238-242	2.5	32
207	Universality classes for asymptotic behavior of relaxation processes in systems with dynamical disorder: Dynamical generalizations of stretched exponential. <i>Journal of Mathematical Physics</i> , 1996 , 37, 2279-2306	1.2	32
206	Beyond monofractional kinetics. <i>Chaos, Solitons and Fractals</i> , 2017 , 102, 210-217	9.3	31
205	Comb Model with Slow and Ultraslow Diffusion. <i>Mathematical Modelling of Natural Phenomena</i> , 2016 , 11, 18-33	3	31
204	First-passage statistics for aging diffusion in systems with annealed and quenched disorder. <i>Physical Review E</i> , 2014 , 89, 040101	2.4	31
203	Diffusion inside living human cells. <i>European Physical Journal: Special Topics</i> , 2012 , 204, 75-84	2.3	31
202	Biased continuous-time random walks for ordinary and equilibrium cases: facilitation of diffusion, ergodicity breaking and ageing. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 20827-20848	3.6	30
201	Velocity and displacement correlation functions for fractional generalized Langevin equations. <i>Fractional Calculus and Applied Analysis</i> , 2012 , 15,	2.7	30
200	Sequence dependence of the binding energy in chaperone-driven polymer translocation through a nanopore. <i>Physical Review E</i> , 2011 , 83, 011902	2.4	30
199	First passage time of N excluded-volume particles on a line. <i>Physical Review E</i> , 2005 , 72, 041102	2.4	28
198	Tightness of slip-linked polymer chains. <i>Physical Review E</i> , 2002 , 65, 061103	2.4	28
197	Fractional Brownian motion in a finite interval: correlations effect depletion or accretion zones of particles near boundaries. <i>New Journal of Physics</i> , 2019 , 21, 022002	2.9	28
196	Full distribution of first exit times in the narrow escape problem. <i>New Journal of Physics</i> , 2019 , 21, 122001	2.9	28
195	Superstatistics and non-Gaussian diffusion. <i>European Physical Journal: Special Topics</i> , 2020 , 229, 711-728	2.3	27
194	The fractional Fokker-Planck equation: dispersive transport in an external force field. <i>Journal of Molecular Liquids</i> , 2000 , 86, 219-228	6	27
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