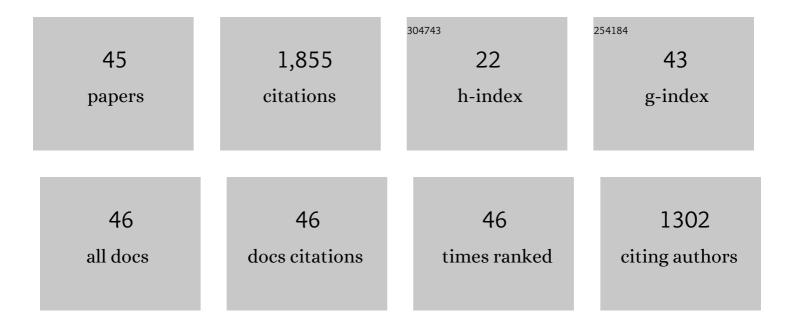
## Michael A Lomholt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Optimal Target Search on a Fast-Folding Polymer Chain with Volume Exchange. Physical Review Letters, 2005, 95, 260603.	7.8	207
2	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
3	Foundation of fractional Langevin equation: Harmonization of a many-body problem. Physical Review E, 2010, 81, 051118.	2.1	120
4	Leapover Lengths and First Passage Time Statistics for Lévy Flights. Physical Review Letters, 2007, 99, 160602.	7.8	113
5	Subdiffusion and Weak Ergodicity Breaking in the Presence of a Reactive Boundary. Physical Review Letters, 2007, 98, 200603.	7.8	111
6	Objective comparison of methods to decode anomalous diffusion. Nature Communications, 2021, 12, 6253.	12.8	109
7	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
8	Langevin formulation for single-file diffusion. Physical Review E, 2008, 78, 051116.	2.1	59
9	First passage and first hitting times of Lévy flights and Lévy walks. New Journal of Physics, 2019, 21, 103028.	2.9	54
10	Bulk-mediated diffusion on a planar surface: Full solution. Physical Review E, 2012, 86, 041101.	2.1	50
11	How Subdiffusion Changes the Kinetics of Binding to a Surface. Biophysical Journal, 2009, 97, 710-721.	0.5	48
12	Microscopic Origin of the Logarithmic Time Evolution of Aging Processes in Complex Systems. Physical Review Letters, 2013, 110, 208301.	7.8	48
13	Quantitative fluorescence loss in photobleaching for analysis of protein transport and aggregation. BMC Bioinformatics, 2012, 13, 296.	2.6	46
14	Real sequence effects on the search dynamics of transcription factors on DNA. Scientific Reports, 2015, 5, 10072.	3.3	46
15	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
16	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
17	Bulk-mediated surface diffusion along a cylinder: Propagators and crossovers. Physical Review E, 2009, 79, 040105.	2.1	43
18	Applying a potential across a biomembrane: Electrostatic contribution to the bending rigidity and membrane instability. Physical Review F, 2007, 75, 051916	2.1	33

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#	Article	IF	CITATIONS
19	Effective tension and fluctuations in active membranes. Physical Review E, 2012, 85, 031913.	2.1	30
20	Single-file dynamics with different diffusion constants. Journal of Chemical Physics, 2008, 129, 185106.	3.0	26
21	Effective surface motion on a reactive cylinder of particles that perform intermittent bulk diffusion. Journal of Chemical Physics, 2011, 134, 204116.	3.0	24
22	Quantifying the Relationship between Curvature and Electric Potential in Lipid Bilayers. Journal of Physical Chemistry B, 2016, 120, 4812-4817.	2.6	24
23	Descriptions of membrane mechanics from microscopic and effective two-dimensional perspectives. Journal of Physics A, 2006, 39, 10323-10354.	1.6	23
24	Imaging approaches for analysis of cholesterol distribution and dynamics in the plasma membrane. Chemistry and Physics of Lipids, 2016, 199, 106-135.	3.2	22
25	Manipulating Single Enzymes by an External Harmonic Force. Physical Review Letters, 2007, 98, 168302.	7.8	20
26	Fluctuation spectrum of quasispherical membranes with force-dipole activity. Physical Review E, 2006, 73, 061914.	2.1	19
27	Master equation approach to DNA breathing in heteropolymer DNA. Physical Review E, 2007, 75, 021908.	2.1	19
28	And did he search for you, and could not find you?. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 434005.	2.1	19
29	Bayesian model selection with fractional Brownian motion. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 093501.	2.3	19
30	Bayesian inference with information content model check for Langevin equations. Physical Review E, 2017, 96, 062106.	2.1	18
31	Mechanics of nonplanar membranes with force-dipole activity. Physical Review E, 2006, 73, 061913.	2.1	16
32	Two-photon time-lapse microscopy of BODIPY-cholesterol reveals anomalous sterol diffusion in chinese hamster ovary cells. BMC Biophysics, 2012, 5, 20.	4.4	16
33	Bayesian inference of scaled versus fractional Brownian motion. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 194003.	2.1	15
34	Single-file diffusion with non-thermal initial conditions. Physica A: Statistical Mechanics and Its Applications, 2014, 395, 148-153.	2.6	13
35	Electromechanics of a membrane with spatially distributed fixed charges: Flexoelectricity and elastic parameters. Physical Review E, 2013, 88, 062715.	2.1	12
36	Bayesian inference of Lévy walks via hidden Markov models. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 484001.	2.1	12

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37	Dissimilar bouncy walkers. Journal of Chemical Physics, 2011, 134, 045101.	3.0	10
38	Elastic moderation of intrinsically applied tension in lipid membranes. Physical Review E, 2011, 83, 011913.	2.1	9
39	Stochastic unfolding of nanoconfined DNA: Experiments, model and Bayesian analysis. Journal of Chemical Physics, 2018, 149, 215101.	3.0	9
40	Fitting a function to time-dependent ensemble averaged data. Scientific Reports, 2018, 8, 6984.	3.3	9
41	Tension moderation and fluctuation spectrum in simulated lipid membranes under an applied electric potential. Journal of Chemical Physics, 2013, 139, 164902.	3.0	7
42	Universality and nonuniversality of mobility in heterogeneous single-file systems and Rouse chains. Physical Review E, 2014, 89, 032101.	2.1	6
43	Stochastic thermodynamics of a tagged particle within a harmonic chain. Physical Review E, 2015, 91, 022114.	2.1	5
44	Optimization and modeling of the remote loading of luciferin into liposomes. International Journal of Pharmaceutics, 2016, 508, 128-134.	5.2	3
45	Tracer particles in two-dimensional elastic networks diffuse logarithmically slow. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 034001.	2.1	1