

# Igor M Sokolov

## List of Publications by Year in descending order

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Version: 2024-02-01

317  
papers

12,690  
citations

25031

57  
h-index

36025

97  
g-index

341  
all docs

341  
docs citations

341  
times ranked

6780  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Fractional Kinetics. <i>Physics Today</i> , 2002, 55, 48-54.  | 0.3  | 574       |
| 2  | Models of anomalous diffusion in crowded environments. <i>Soft Matter</i> , 2012, 8, 9043.  | 2.7  | 453       |
| 3  | From diffusion to anomalous diffusion: A century after Einstein's Brownian motion. <i>Chaos</i> , 2005, 15, 026103.   | 2.5  | 367       |
| 4  | Anomalous diffusion spreads its wings. <i>Physics World</i> , 2005, 18, 29-32.  | 0.0  | 357       |
| 5  | Retarding subdiffusion and accelerating superdiffusion governed by distributed-order fractional diffusion equations. <i>Physical Review E</i> , 2002, 66, 046129. | 2.1  | 329       |
| 6  | Nonergodicity Mimics Inhomogeneity in Single Particle Tracking. <i>Physical Review Letters</i> , 2008, 100, 250602.   | 7.8  | 281       |
| 7  | A toolbox for determining subdiffusive mechanisms. <i>Physics Reports</i> , 2015, 573, 1-29.  | 25.6 | 240       |
| 8  | Brownian yet Non-Gaussian Diffusion: From Superstatistics to Subordination of Diffusing Diffusivities. <i>Physical Review X</i> , 2017, 7, .                      | 8.9  | 235       |
| 9  | Fractional diffusion in inhomogeneous media. <i>Journal of Physics A</i> , 2005, 38, L679-L684.   | 1.6  | 232       |
| 10 | Anomalous transport in external fields: Continuous time random walks and fractional diffusion equations extended. <i>Physical Review E</i> , 1998, 58, 1621-1633. | 2.1  | 196       |
| 11 | Reshuffling scale-free networks: From random to assortative. <i>Physical Review E</i> , 2004, 70, 066102.   | 2.1  | 194       |
| 12 | Percolation on heterogeneous networks as a model for epidemics. <i>Mathematical Biosciences</i> , 2002, 180, 293-305.   | 1.9  | 188       |
| 13 | Modeling Echo Chambers and Polarization Dynamics in Social Networks. <i>Physical Review Letters</i> , 2020, 124, 048301.  | 7.8  | 182       |
| 14 | Diffusion on a Solid Surface: Anomalous is Normal. <i>Physical Review Letters</i> , 2004, 92, 250601.   | 7.8  | 176       |
| 15 | Random Search with Resetting: A Unified Renewal Approach. <i>Physical Review Letters</i> , 2018, 121, 050601.   | 7.8  | 170       |
| 16 | Field-Induced Dispersion in Subdiffusion. <i>Physical Review Letters</i> , 2006, 97, 140602.  | 7.8  | 150       |
| 17 | Reaction-subdiffusion equations. <i>Physical Review E</i> , 2006, 73, 031102.   | 2.1  | 144       |
| 18 | Relative Dispersion in Fully Developed Turbulence: The Richardson's Law and Intermittency Corrections. <i>Physical Review Letters</i> , 2002, 88, 094501.         | 7.8  | 140       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Rapid Trench Channeling of Graphenes with Catalytic Silver Nanoparticles. Nano Letters, 2009, 9, 457-461.  | 9.1 | 136       |
| 20 | Fractional Fokker-Planck equation for ultraslow kinetics. Europhysics Letters, 2003, 63, 326-332.  | 2.0 | 130       |
| 21 | Paradoxal Diffusion in Chemical Space for Nearest-Neighbor Walks over Polymer Chains. Physical Review Letters, 1997, 79, 857-860.                | 7.8 | 124       |
| 22 | Lévy flights from a continuous-time process. Physical Review E, 2000, 63, 011104.  | 2.1 | 113       |
| 23 | Geography in a scale-free network model. Physical Review E, 2002, 66, 056105.  | 2.1 | 113       |
| 24 | Generalized fractional diffusion equations for accelerating subdiffusion and truncated Lévy flights. Physical Review E, 2008, 78, 021111.        | 2.1 | 102       |
| 25 | Unfolding Accessibility Provides a Macroscopic Approach to Temporal Networks. Physical Review Letters, 2013, 110, 118701.                        | 7.8 | 99        |
| 26 | Fractional diffusion equation for a power-law-truncated Lévy process. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 245-251. | 2.6 | 98        |
| 27 | Subdiffusion of mixed origins: When ergodicity and nonergodicity coexist. Physical Review E, 2010, 81, 010101.                                   | 2.1 | 96        |
| 28 | Target Search of N Sliding Proteins on a DNA. Biophysical Journal, 2005, 89, 895-902.  | 0.5 | 95        |
| 29 | From subdiffusion to superdiffusion of particles on solid surfaces. Physical Review E, 2004, 70, 051104.   | 2.1 | 91        |
| 30 | Reversible Dewetting of a Molecularly Thin Fluid Water Film in a Soft Graphene-Mica Slit Pore. Nano Letters, 2012, 12, 774-779.                  | 9.1 | 90        |
| 31 | Towards deterministic equations for Lévy walks: The fractional material derivative. Physical Review E, 2003, 67, 010101.                         | 2.1 | 89        |
| 32 | Scaled Brownian motion as a mean-field model for continuous-time random walks. Physical Review E, 2014, 89, 012115.                              | 2.1 | 88        |
| 33 | Distributed-order diffusion equations and multifractality: Models and solutions. Physical Review E, 2015, 92, 042117.                            | 2.1 | 83        |
| 34 | Solutions of a class of non-Markovian Fokker-Planck equations. Physical Review E, 2002, 66, 041101.  | 2.1 | 82        |
| 35 | Evolving networks with disadvantaged long-range connections. Physical Review E, 2002, 66, 026118.  | 2.1 | 82        |
| 36 | Cyclization of a Polymer: First-Passage Problem for a Non-Markovian Process. Physical Review Letters, 2003, 90, 080601.                          | 7.8 | 82        |

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|----|---|-----|-----------|
| 37 | Thermodynamics and fractional Fokker-Planck equations. <i>Physical Review E</i> , 2001, 63, 056111.   | 2.1 | 81        |
| 38 | Effective distances for epidemics spreading on complex networks. <i>Physical Review E</i> , 2017, 95, 012313.                                   | 2.1 | 80        |
| 39 | Underdamped scaled Brownian motion: (non-)existence of the overdamped limit in anomalous diffusion. <i>Scientific Reports</i> , 2016, 6, 30520. | 3.3 | 79        |
| 40 | Subdiffusion in time-averaged, confined random walks. <i>Physical Review E</i> , 2009, 80, 011109.  | 2.1 | 78        |
| 41 | Measuring statistical evenness: A panoramic overview. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 1323-1353.      | 2.6 | 78        |
| 42 | Resetting processes with noninstantaneous return. <i>Physical Review E</i> , 2020, 101, 052130.   | 2.1 | 74        |
| 43 | Statistics of two-particle dispersion in two-dimensional turbulence. <i>Physics of Fluids</i> , 2002, 14, 3224-3232.                            | 4.0 | 73        |
| 44 | Continuous-time random walk with correlated waiting times. <i>Physical Review E</i> , 2009, 80, 031112.   | 2.1 | 72        |
| 45 | Relaxation properties of small-world networks. <i>Physical Review E</i> , 2000, 62, 4405-4408.  | 2.1 | 71        |
| 46 | Measuring statistical heterogeneity: The Pietra index. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 117-125.       | 2.6 | 70        |
| 47 | Scaled Brownian motion with renewal resetting. <i>Physical Review E</i> , 2019, 100, 012120.  | 2.1 | 68        |
| 48 | Diffusion mechanisms of localised knots along a polymer. <i>Europhysics Letters</i> , 2006, 76, 696-702.  | 2.0 | 67        |
| 49 | Ito, Stratonovich, HÅnggi and all the rest: The thermodynamics of interpretation. <i>Chemical Physics</i> , 2010, 375, 359-363.                 | 1.9 | 65        |
| 50 | Subdiffusion in Peptides Originates from the Fractal-Like Structure of Configuration Space. <i>Physical Review Letters</i> , 2008, 100, 188103. | 7.8 | 63        |
| 51 | Nonrenewal resetting of scaled Brownian motion. <i>Physical Review E</i> , 2019, 100, 012119.   | 2.1 | 63        |
| 52 | Patterns and scaling in surface fragmentation processes. <i>Physical Review E</i> , 1996, 54, 4293-4298.  | 2.1 | 62        |
| 53 | Epidemics, disorder, and percolation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 1-8.                            | 2.6 | 61        |
| 54 | Test for Determining a Subdiffusive Model in Ergodic Systems from Single Trajectories. <i>Physical Review Letters</i> , 2013, 110, 090601.      | 7.8 | 61        |

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|----|---|-----|-----------|
| 55 | Dispersionless Transport in a Washboard Potential. <i>Physical Review Letters</i> , 2007, 98, 020602.   | 7.8 | 60        |
| 56 | Codifference as a practical tool to measure interdependence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 421, 412-429.                             | 2.6 | 58        |
| 57 | Giant diffusion of underdamped particles in a biased periodic potential. <i>Physical Review E</i> , 2016, 93, 042106.   | 2.1 | 56        |
| 58 | Stationary states in Langevin dynamics under asymmetric Lévy noises. <i>Physical Review E</i> , 2007, 76, 041122.   | 2.1 | 55        |
| 59 | Quantifying the non-ergodicity of scaled Brownian motion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 375002.                                     | 2.1 | 54        |
| 60 | Unexpected crossovers in correlated random-diffusivity processes. <i>New Journal of Physics</i> , 2020, 22, 083041.   | 2.9 | 53        |
| 61 | Small-world Rouse networks as models of cross-linked polymers. <i>Journal of Chemical Physics</i> , 2000, 113, 7652-7655.   | 3.0 | 52        |
| 62 | Ballistic versus diffusive pair dispersion in the Richardson regime. <i>Physical Review E</i> , 2000, 61, 2717-2722.  | 2.1 | 52        |
| 63 | Kramers-like escape driven by fractional Gaussian noise. <i>Physical Review E</i> , 2010, 81, 041119.   | 2.1 | 52        |
| 64 | First passage time densities in resonate-and-fire models. <i>Physical Review E</i> , 2006, 73, 031108.  | 2.1 | 50        |
| 65 | Bulk-mediated diffusion on a planar surface: Full solution. <i>Physical Review E</i> , 2012, 86, 041101.  | 2.1 | 50        |
| 66 | Law of Mass Action, Detailed Balance, and the Modeling of Calcium Puffs. <i>Physical Review Letters</i> , 2010, 105, 048103.  | 7.8 | 48        |
| 67 | Directed particle diffusion under "burnt bridges" conditions. <i>Physical Review E</i> , 2001, 64, 011102.  | 2.1 | 47        |
| 68 | Optimal foraging by zooplankton within patches: The case of <i>Daphnia</i> . <i>Mathematical Biosciences</i> , 2007, 207, 165-188.  | 1.9 | 47        |
| 69 | Maximization of statistical heterogeneity: From Shannon's entropy to Gini's index. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 3023-3038.     | 2.6 | 47        |
| 70 | Time averaging and emerging nonergodicity upon resetting of fractional Brownian motion and heterogeneous diffusion processes. <i>Physical Review E</i> , 2021, 104, 024105. | 2.1 | 46        |
| 71 | Transport in a Lévy ratchet: Group velocity and distribution spread. <i>Physical Review E</i> , 2008, 78, 011117.   | 2.1 | 45        |
| 72 | Bulk-mediated surface diffusion along a cylinder: Propagators and crossovers. <i>Physical Review E</i> , 2009, 79, 040105.  | 2.1 | 43        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Beyond monofractional kinetics. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 210-217.  | 5.1 | 43        |
| 74 | Weak ergodicity breaking in an anomalous diffusion process of mixed origins. <i>Physical Review E</i> , 2014, 89, 012136.  | 2.1 | 42        |
| 75 | Disentangling Sources of Anomalous Diffusion. <i>Physical Review Letters</i> , 2013, 111, 010601.  | 7.8 | 41        |
| 76 | Diffusion-controlled reaction $A+B \rightarrow O$ in one dimension: The role of particle mobilities and the diffusion-equation approach. <i>Physical Review A</i> , 1991, 44, 2388-2393. | 2.5 | 40        |
| 77 | Superdiffusive Klein-Kramers equation: Normal and anomalous time evolution and Lévy walk moments. <i>Europhysics Letters</i> , 2002, 58, 482-488.  | 2.0 | 40        |
| 78 | Enzymatic Chain Scission Kinetics of Poly( $\mu$ -caprolactone) Monolayers. <i>Langmuir</i> , 2007, 23, 12202-12207.   | 3.5 | 40        |
| 79 | Diffusion-controlled reactions in lamellar systems. <i>Physical Review A</i> , 1991, 43, 2714-2719.  | 2.5 | 39        |
| 80 | On the energetics of a nonlinear system rectifying thermal fluctuations. <i>Europhysics Letters</i> , 1998, 44, 278-283.   | 2.0 | 39        |
| 81 | Universal fluctuations in subdiffusive transport. <i>Europhysics Letters</i> , 2009, 86, 30009.  | 2.0 | 39        |
| 82 | Front Propagation and Local Ordering in One-Dimensional Irreversible Autocatalytic Reactions. <i>Physical Review Letters</i> , 1996, 77, 4462-4465.                                      | 7.8 | 38        |
| 83 | Brownian yet non-Gaussian diffusion in heterogeneous media: from superstatistics to homogenization. <i>New Journal of Physics</i> , 2020, 22, 063046.                                    | 2.9 | 38        |
| 84 | Dynamics of annealed systems under external fields: CTRW and the fractional Fokker-Planck equations. <i>Europhysics Letters</i> , 2001, 56, 175-180.                                     | 2.0 | 37        |
| 85 | SIS epidemics with household structure: the self-consistent field method. <i>Mathematical Biosciences</i> , 2004, 190, 71-85.  | 1.9 | 37        |
| 86 | Stationary Fronts in an $A+B \rightarrow O$ Reaction under Subdiffusion. <i>Physical Review Letters</i> , 2008, 100, 108304.   | 7.8 | 37        |
| 87 | Nonergodicity of reset geometric Brownian motion. <i>Physical Review E</i> , 2022, 105, L012106.   | 2.1 | 37        |
| 88 | Harmonic oscillator under Lévy noise: Unexpected properties in the phase space. <i>Physical Review E</i> , 2011, 83, 041118.   | 2.1 | 36        |
| 89 | Mixing effects in the $A+B \rightarrow O$ reaction-diffusion scheme. <i>Physical Review Letters</i> , 1991, 66, 1942-1945.   | 7.8 | 34        |
| 90 | Anomalous diffusion in run-and-tumble motion. <i>Physical Review E</i> , 2012, 86, 021117.   | 2.1 | 34        |

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|-----|---|-----|-----------|
| 91  | Non-equilibrium directed diffusion and inherently irreversible heat engines. <i>Journal of Physics A</i> , 1997, 30, 3021-3027.                               | 1.6 | 33        |
| 92  | Anomalous diffusion of self-propelled particles in directed random environments. <i>Physical Review E</i> , 2014, 90, 030701.                                 | 2.1 | 33        |
| 93  | Do strange kinetics imply unusual thermodynamics?. <i>Physical Review E</i> , 2001, 64, 021107.   | 2.1 | 32        |
| 94  | Continuous Time Random Walk, Mittag-Leffler Waiting Time and Fractional Diffusion: Mathematical Aspects. , 0, , 93-127.                                       |     | 32        |
| 95  | Inertia triggers nonergodicity of fractional Brownian motion. <i>Physical Review E</i> , 2021, 104, 024115.   | 2.1 | 32        |
| 96  | Continuum description of a contact infection spread in a SIR model. <i>Mathematical Biosciences</i> , 2007, 208, 205-215.                                     | 1.9 | 31        |
| 97  | Non-uniqueness of the first passage time density of Lévy random processes. <i>Journal of Physics A</i> , 2004, 37, L609-L615.                                 | 1.6 | 30        |
| 98  | First passage time of N excluded-volume particles on a line. <i>Physical Review E</i> , 2005, 72, 041102.   | 2.1 | 30        |
| 99  | Spread of infectious diseases in directed and modular metapopulation networks. <i>Physical Review E</i> , 2012, 85, 066111.                                   | 2.1 | 30        |
| 100 | Stationary states in single-well potentials under symmetric Lévy noises. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P07008. | 2.3 | 29        |
| 101 | Dynamics of Ethanol and Water Mixtures Observed in a Self-Adjusting Molecularly Thin Slit Pore. <i>Langmuir</i> , 2014, 30, 3455-3459.                        | 3.5 | 29        |
| 102 | Distribution of striation thicknesses in reacting lamellar systems. <i>Physical Review A</i> , 1991, 43, 6545-6549.   | 2.5 | 28        |
| 103 | Mesoscopic description of reactions for anomalous diffusion: a case study. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 065118.                     | 1.8 | 28        |
| 104 | Reaction-subdiffusion equations for the A $\rightarrow$ B reaction. <i>Physical Review E</i> , 2008, 77, 032102.  | 2.1 | 28        |
| 105 | An improved scheme for a Robin boundary condition in discrete-time random walk algorithms. <i>Journal of Computational Physics</i> , 2018, 374, 1152-1165.    | 3.8 | 28        |
| 106 | Statistical Model for Surface Fracture. <i>Europhysics Letters</i> , 1993, 22, 487-492.   | 2.0 | 27        |
| 107 | Analysis of a one-dimensional fracture model. <i>Journal of Physics A</i> , 1993, 26, 4521-4537.  | 1.6 | 27        |
| 108 | Fractal properties of anomalous diffusion in intermittent maps. <i>Physical Review E</i> , 2007, 75, 036213.  | 2.1 | 27        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Statistical mechanics of entropic forces: disassembling a toy. <i>European Journal of Physics</i> , 2010, 31, 1353-1367.   | 0.6 | 27        |
| 110 | Relation between generalized diffusion equations and subordination schemes. <i>Physical Review E</i> , 2021, 103, 032133.  | 2.1 | 27        |
| 111 | Reversible fluctuation rectifier. <i>Physical Review E</i> , 1999, 60, 4946-4949.  | 2.1 | 26        |
| 112 | Two scaling domains in multiple cracking phenomena. <i>Physical Review E</i> , 2000, 62, 7807-7810.  | 2.1 | 26        |
| 113 | Percolation of spatially constrained Erdős-Rényi networks with degree correlations. <i>Physical Review E</i> , 2014, 89, 012116.                                   | 2.1 | 26        |
| 114 | Fluctuation-Dominated Kinetics under Stirring. <i>Physical Review Letters</i> , 1997, 78, 741-744.   | 7.8 | 25        |
| 115 | Two-particle dispersion by correlated random velocity fields. <i>Physical Review E</i> , 1999, 60, 5528-5532.  | 2.1 | 25        |
| 116 | Multi-point distribution function for the continuous time random walk. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P08001-P08001. | 2.3 | 25        |
| 117 | Front propagation in $A+B \rightarrow 2A$ reaction under subdiffusion. <i>Physical Review E</i> , 2008, 78, 011128.  | 2.1 | 25        |
| 118 | Unequal Twins: Probability Distributions Do Not Determine Everything. <i>Physical Review Letters</i> , 2011, 107, 260601.  | 7.8 | 25        |
| 119 | Continuous-time random walks under power-law resetting. <i>Physical Review E</i> , 2020, 101, 062117.  | 2.1 | 25        |
| 120 | Kinetics in coagulation-annihilation processes. <i>Physical Review E</i> , 1994, 50, 2335-2338.  | 2.1 | 24        |
| 121 | Irreversible and reversible modes of operation of deterministic ratchets. <i>Physical Review E</i> , 2001, 63, 021107.   | 2.1 | 24        |
| 122 | Lövy ratchet in a weak noise limit: Theory and simulation. <i>European Physical Journal: Special Topics</i> , 2010, 191, 223-237.                                  | 2.6 | 24        |
| 123 | Distribution of first-passage times to specific targets on compactly explored fractal structures. <i>Physical Review E</i> , 2011, 83, 020104.                     | 2.1 | 24        |
| 124 | Effective surface motion on a reactive cylinder of particles that perform intermittent bulk diffusion. <i>Journal of Chemical Physics</i> , 2011, 134, 204116.     | 3.0 | 24        |
| 125 | Nanophase Separation in Monomolecularly Thin Water-Ethanol Films Controlled by Graphene. <i>Nano Letters</i> , 2015, 15, 1171-1176.                                | 9.1 | 24        |
| 126 | Emergence of Polarized Ideological Opinions in Multidimensional Topic Spaces. <i>Physical Review X</i> , 2021, 11, .   | 8.9 | 24        |

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|-----|--|------|-----------|
| 127 | Editorial: Ecological complex systems. <i>European Physical Journal B</i> , 2008, 65, 307-314.   | 1.5  | 23        |
| 128 | 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.             | 1.4  | 22        |
| 129 | Dynamics of a polyampholyte hooked around an obstacle. <i>Physical Review E</i> , 1997, 56, R2390-R2393.   | 2.1  | 22        |
| 130 | Correlations in scale-free networks: Tomography and percolation. <i>Physical Review E</i> , 2003, 68, 036119.  | 2.1  | 22        |
| 131 | First passage time densities in non-Markovian models with subthreshold oscillations. <i>Europhysics Letters</i> , 2006, 73, 691-697.   | 2.0  | 22        |
| 132 | Growing networks under geographical constraints. <i>Physical Review E</i> , 2007, 75, 046117.  | 2.1  | 22        |
| 133 | Anomalous Relaxation in Complex Systems: From Stretched to Compressed Exponentials. , 0, , 327-345.  |      | 22        |
| 134 | Gini characterization of extreme-value statistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 4462-4472.  | 2.6  | 22        |
| 135 | On the spectral distribution of the energy of equilibrium radiation in matter. <i>JETP Letters</i> , 2015, 101, 299-302.   | 1.4  | 22        |
| 136 | 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. | 2.1  | 22        |
| 137 | Epidemics with mutating infectivity on small-world networks. <i>Scientific Reports</i> , 2020, 10, 5919.   | 3.3  | 22        |
| 138 | Degree Correlations Optimize Neuronal Network Sensitivity to Sub-Threshold Stimuli. <i>PLoS ONE</i> , 2015, 10, e0121794.  | 2.5  | 22        |
| 139 | Fluctuation statistics in the diffusion-limited $A+B\hat{\dagger}^0$ reaction. <i>Physical Review A</i> , 1990, 42, 7075-7079.   | 2.5  | 21        |
| 140 | Reactions in systems with mixing. <i>Journal of Physics A</i> , 1991, 24, 3687-3700.   | 1.6  | 21        |
| 141 | Linear response to perturbation of nonexponential renewal process: A generalized master equation approach. <i>Physical Review E</i> , 2006, 73, 067102.                                  | 2.1  | 21        |
| 142 | Interspike interval densities of resonate and fire neurons. <i>BioSystems</i> , 2007, 89, 63-68.   | 2.0  | 21        |
| 143 | Not hotter than hot. <i>Nature Physics</i> , 2014, 10, 7-8.  | 16.7 | 20        |
| 144 | Discreteness effects on the front propagation in the $A + B \hat{\dagger}^2 A$ reaction in 3 dimensions. <i>Europhysics Letters</i> , 1998, 44, 7-12.                                    | 2.0  | 19        |

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|-----|--|-----|-----------|
| 145 | Necessary conditions of the equivalence of canonical and grand canonical ensembles in Coulomb system thermodynamics. <i>Physics of Plasmas</i> , 2012, 19, .                         | 1.9 | 19        |
| 146 | Infections on Temporal Networks—A Matrix-Based Approach. <i>PLoS ONE</i> , 2016, 11, e0151209.   | 2.5 | 19        |
| 147 | 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. | 2.1 | 18        |
| 148 | Cyclization of a polymer with charged reactive end groups. <i>Journal of Chemical Physics</i> , 2001, 114, 5043-5048.  | 3.0 | 18        |
| 149 | Sanchoet’s Reply. <i>Physical Review Letters</i> , 2005, 94, .   | 7.8 | 18        |
| 150 | Blowing DNA Bubbles. <i>Nano Letters</i> , 2006, 6, 2561-2566.   | 9.1 | 18        |
| 151 | Continuous-time random walks with internal dynamics and subdiffusive reaction-diffusion equations. <i>Physical Review E</i> , 2008, 78, 060102.                                      | 2.1 | 18        |
| 152 | Nonspectral Relaxation in One Dimensional Ornstein-Uhlenbeck Processes. <i>Physical Review Letters</i> , 2013, 110, 150602.  | 7.8 | 18        |
| 153 | Extreme fluctuation dominance in biology: On the usefulness of wastefulness. <i>Physics of Life Reviews</i> , 2019, 28, 88-91.   | 2.8 | 18        |
| 154 | Finite-size effects in Barabási-Albert growing networks. <i>Physical Review E</i> , 2007, 75, 056114.  | 2.1 | 17        |
| 155 | Statistics and the single molecule. <i>Physics Magazine</i> , 0, 1, .  | 0.1 | 17        |
| 156 | Communication: Impact of inertia on biased Brownian transport in confined geometries. <i>Journal of Chemical Physics</i> , 2012, 136, 111102.  | 3.0 | 17        |
| 157 | Brownian motion under noninstantaneous resetting in higher dimensions. <i>Physical Review E</i> , 2020, 102, 032129.   | 2.1 | 17        |
| 158 | Fragmentation of viscoelastic surface layers. <i>Europhysics Letters</i> , 1997, 40, 275-280.  | 2.0 | 16        |
| 159 | Front form and velocity in a one-dimensional autocatalytic reaction. <i>Physical Review E</i> , 1997, 56, 4130-4134.   | 2.1 | 16        |
| 160 | Understanding anomalous transport in intermittent maps: From continuous-time random walks to fractals. <i>Europhysics Letters</i> , 2005, 70, 63-69.                                 | 2.0 | 16        |
| 161 | Sampling from scale-free networks and the matchmaking paradox. <i>Physical Review E</i> , 2010, 81, 026107.  | 2.1 | 16        |
| 162 | Active particles forced by an asymmetric dichotomous angle drive. <i>Physical Review E</i> , 2012, 85, 052101.   | 2.1 | 16        |

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|-----|--|-----|-----------|
| 163 | 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.      | 7.8 | 16        |
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