

# Trifce Sandev

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

1,276  
citations

22  
h-index

32  
g-index

79  
ext. papers

1,558  
ext. citations

2.5  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
78	Heterogeneous diffusion with stochastic resetting. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2022</b> , 55, 074003	2	0
77	Tuning of the Dielectric Relaxation and Complex Susceptibility in a System of Polar Molecules: A Generalised Model Based on Rotational Diffusion with Resetting. <i>Fractal and Fractional</i> , <b>2022</b> , 6, 88	3	1
76	Income inequality and mobility in geometric Brownian motion with stochastic resetting: theoretical results and empirical evidence of non-ergodicity.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2022</b> , 380, 20210157	3	3
75	Asymmetric Lévy Flights Are More Efficient in Random Search. <i>Fractal and Fractional</i> , <b>2022</b> , 6, 260	3	0
74	First encounters on Bethe lattices and Cayley trees. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 95, 105594	3.7	4
73	Diffusion-Advection Equations on a Comb: Resetting and Random Search. <i>Mathematics</i> , <b>2021</b> , 9, 221	2.3	7
72	Continuous time random walks under Markovian resetting. <i>Physical Review E</i> , <b>2021</b> , 103, 022103	2.4	6
71	Fractional Schrödinger equation and anomalous relaxation: Nonlocal terms and delta potentials. <i>Modern Physics Letters A</i> , <b>2021</b> , 36, 2140004	1.3	3
70	Geometric Brownian motion under stochastic resetting: A stationary yet nonergodic process. <i>Physical Review E</i> , <b>2021</b> , 104, 014121	2.4	11
69	Backbone diffusion and first-passage dynamics in a comb structure with confining branches under stochastic resetting. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2021</b> , 54, 404006	2	2
68	Closed-form multi-dimensional solutions and asymptotic behaviors for subdiffusive processes with crossovers: I. Retarding case. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 152, 111357	9.3	1
67	From continuous-time random walks to the fractional Jeffreys equation: Solution and properties. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 181, 121839	4.9	4
66	Comb-like geometric constraints leading to emergence of the time-fractional Schrödinger equation. <i>Modern Physics Letters A</i> , <b>2021</b> , 36, 2130005	1.3	1
65	Generalised Geometric Brownian Motion: Theory and Applications to Option Pricing. <i>Entropy</i> , <b>2020</b> , 22,	2.8	14
64	Anomalous diffusion and random search in xyz-comb: exact results. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2020</b> , 2020, 053203	1.9	4
63	Quenched and annealed disorder mechanisms in comb models with fractional operators. <i>Physical Review E</i> , <b>2020</b> , 101, 022135	2.4	12
62	Diffusion-Reaction processes on a backbone structure. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2020</b> , 85, 105218	3.7	2

61	Ly walk with parameter dependent velocity: Hermite polynomial approach and numerical simulation. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2020</b> , 53, 115002	2	7
60	Stochastic resetting on comblike structures. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	12
59	Resetting dynamics in a confining potential. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2020</b> , 53, 505003	2	16
58	The time-dependent Schrödinger equation in non-integer dimensions for constrained quantum motion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126866	2.3	3
57	Hitting times in turbulent diffusion due to multiplicative noise. <i>Physical Review E</i> , <b>2020</b> , 102, 042109	2.4	6
56	Fractional Diffusion to a Cantor Set in 2D. <i>Fractal and Fractional</i> , <b>2020</b> , 4, 52	3	1
55	Generalized Cattaneo (telegrapher's) equations in modeling anomalous diffusion phenomena. <i>Physical Review E</i> , <b>2020</b> , 102, 022128	2.4	11
54	Reaction and ultraslow diffusion on comb structures. <i>Physical Review E</i> , <b>2020</b> , 101, 042119	2.4	6
53	Random search on comb. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2019</b> , 52, 465001	2	5
52	The time-dependent Schrödinger equation in three dimensions under geometric constraints. <i>Journal of Mathematical Physics</i> , <b>2019</b> , 60, 032101	1.2	6
51	Solutions for a fractional diffusion equation in heterogeneous media. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2019</b> , 2019, 033205	1.9	6
50	Reliability of Poisson-Nernst-Planck Anomalous Models for Impedance Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 7885-7892	3.4	7
49	Cauchy Type Problems. <i>Developments in Mathematics</i> , <b>2019</b> , 61-114	0.5	3
48	Fractional Generalized Langevin Equation. <i>Developments in Mathematics</i> , <b>2019</b> , 301-335	0.5	
47	Generalized Differential and Integral Operators. <i>Developments in Mathematics</i> , <b>2019</b> , 29-59	0.5	
46	Generalized Langevin Equation. <i>Developments in Mathematics</i> , <b>2019</b> , 247-300	0.5	
45	Introduction: Mittag-Leffler and Other Related Functions. <i>Developments in Mathematics</i> , <b>2019</b> , 1-28	0.5	
44	Fractional Diffusion and Fokker-Planck Equations. <i>Developments in Mathematics</i> , <b>2019</b> , 115-211	0.5	

43	Fractional Wave Equations. <i>Developments in Mathematics</i> , <b>2019</b> , 213-245	0.5	0
42	Fractional Equations and Models. <i>Developments in Mathematics</i> , <b>2019</b> ,	0.5	27
41	Generalized diffusion-wave equation with memory kernel. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2019</b> , 52, 015201	2	30
40	Constrained quantum motion in $\mathbb{E}$ potential and application of a generalized integral operator. <i>Computers and Mathematics With Applications</i> , <b>2019</b> , 78, 1695-1704	2.7	6
39	Generalized time-dependent Schrödinger equation in two dimensions under constraints. <i>Journal of Mathematical Physics</i> , <b>2018</b> , 59, 012104	1.2	9
38	Heterogeneous diffusion in comb and fractal grid structures. <i>Chaos, Solitons and Fractals</i> , <b>2018</b> , 114, 551-555	9.3	24
37	Distributed-order wave equations with composite time fractional derivative. <i>International Journal of Computer Mathematics</i> , <b>2018</b> , 95, 1100-1113	1.2	9
36	Models for characterizing the transition among anomalous diffusions with different diffusion exponents. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2018</b> , 51, 405002	2	21
35	Finite-velocity diffusion on a comb. <i>Europhysics Letters</i> , <b>2018</b> , 124, 20005	1.6	16
34	Crossover from anomalous to normal diffusion: truncated power-law noise correlations and applications to dynamics in lipid bilayers. <i>New Journal of Physics</i> , <b>2018</b> , 20, 103027	2.9	58
33	From continuous time random walks to the generalized diffusion equation. <i>Fractional Calculus and Applied Analysis</i> , <b>2018</b> , 21, 10-28	2.7	53
32	Beyond monofractional kinetics. <i>Chaos, Solitons and Fractals</i> , <b>2017</b> , 102, 210-217	9.3	31
31	Generalized Langevin Equation and the Prabhakar Derivative. <i>Mathematics</i> , <b>2017</b> , 5, 66	2.3	41
30	Anomalous diffusion on a fractal mesh. <i>Physical Review E</i> , <b>2017</b> , 95, 052107	2.4	19
29	Generalized distributed order diffusion equations with composite time fractional derivative. <i>Computers and Mathematics With Applications</i> , <b>2017</b> , 73, 1028-1040	2.7	12
28	Generalized Langevin equation with tempered memory kernel. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 466, 356-369	3.3	42
27	LLy processes on a generalized fractal comb. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2016</b> , 49, 355001	2	19
26	Comb Model with Slow and Ultraslow Diffusion. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2016</b> , 11, 18-33	3	31

25	Diffusion Transport in Slab Geometry of Inhomogeneous Media. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2016</b> , 11, 51-62	3	14
24	Effective Potential from the Generalized Time-Dependent Schrödinger Equation. <i>Mathematics</i> , <b>2016</b> , 4, 59	2.3	10
23	Fractional diffusion on a fractal grid comb. <i>Physical Review E</i> , <b>2015</b> , 91, 032108	2.4	24
22	Diffusion and Fokker-Planck-Smoluchowski Equations with Generalized Memory Kernel. <i>Fractional Calculus and Applied Analysis</i> , <b>2015</b> , 18, 1006-1038	2.7	64
21	Analytical Solution of Generalized Space-Time Fractional Cable Equation. <i>Mathematics</i> , <b>2015</b> , 3, 153-170	2.3	5
20	Space-Time Fractional Schrödinger Equation With Composite Time Fractional Derivative. <i>Fractional Calculus and Applied Analysis</i> , <b>2015</b> , 18, 1179-1200	2.7	10
19	Distributed-order diffusion equations and multifractality: Models and solutions. <i>Physical Review E</i> , <b>2015</b> , 92, 042117	2.4	66
18	Correlation functions for the fractional generalized Langevin equation in the presence of internal and external noise. <i>Journal of Mathematical Physics</i> , <b>2014</b> , 55, 023301	1.2	40
17	Harmonic and anharmonic quantum-mechanical oscillators in noninteger dimensions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 109-116	2.3	24
16	Langevin equation for a free particle driven by power law type of noises. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 1-9	2.3	32
15	Time-dependent Schrödinger-like equation with nonlocal term. <i>Journal of Mathematical Physics</i> , <b>2014</b> , 55, 092105	1.2	23
14	Exact solutions for fractional diffusion equation in a bounded domain with different boundary conditions. <i>Nonlinear Dynamics</i> , <b>2013</b> , 71, 671-683	5	19
13	Axially symmetrical molecules in electric and magnetic fields: energy spectrum and selection rules. <i>Open Physics</i> , <b>2013</b> , 11,	1.3	3
12	Generalized space-time fractional diffusion equation with composite fractional time derivative. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 2527-2542	3.3	54
11	Velocity and displacement correlation functions for fractional generalized Langevin equations. <i>Fractional Calculus and Applied Analysis</i> , <b>2012</b> , 15,	2.7	30
10	Fractional wave equation with a frictional memory kernel of Mittag-Leffler type. <i>Applied Mathematics and Computation</i> , <b>2012</b> , 218, 10022-10031	2.7	16
9	Fractional diffusion equation with a generalized Riemann-Liouville time fractional derivative. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2011</b> , 44, 255203	2	72
8	Generalized Langevin equation with a three parameter Mittag-Leffler noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 3627-3636	3.3	68

7	Effects of a fractional friction with power-law memory kernel on string vibrations. <i>Computers and Mathematics With Applications</i> , <b>2011</b> , 62, 1554-1561	2.7	22
6	Splitting of Spectra in Anharmonic Oscillators Described by Kratzer Potential Function. <i>Communications in Theoretical Physics</i> , <b>2010</b> , 54, 138-142	2.4	6
5	Delayed feedback control of fractional-order chaotic systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2010</b> , 43, 445102	2	16
4	Asymptotic behavior of a harmonic oscillator driven by a generalized Mittag-Leffler noise. <i>Physica Scripta</i> , <b>2010</b> , 82, 065001	2.6	17
3	The general time fractional wave equation for a vibrating string. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2010</b> , 43, 055204	2	24
2	Thermoelectric mechanism of electromagnetic-acoustic transformation in organic conductors. <i>Europhysics Letters</i> , <b>2008</b> , 81, 37006	1.6	4
1	Autocorrelation functions and ergodicity in diffusion with stochastic resetting. <i>Journal of Physics A: Mathematical and Theoretical</i> ,	2	1