Paolo Paradisi

List of Publications by Year
in descending order

42 papers	1,576 citations	430442 18 h-index	301761 39 g-index
43 all docs	43 docs citations	43 times ranked	1172 citing authors

#	Article	IF	Citations
1	Time Fractional Diffusion: A Discrete Random Walk Approach. Nonlinear Dynamics, 2002, 29, 129-143.	2.7	311
2	Discrete random walk models for spaceâ€“time fractional diffusion. Chemical Physics, 2002, 284, 521-541.	0.9	236
3	The fractional Fick's law for non-local transport processes. Physica A: Statistical Mechanics and Its Applications, 2001, 293, 130-142.	1.2	143
4	Spontaneous brain activity as a source of ideal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>f</mml:mi></mml:mrow></mml:math>noise. Physical Review E, 2009, 80, 061914.	0.8	100
5	Fractional diffusion: probability distributions and random walk models. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 106-112.	1.2	79
6	A Simple Model for Spatially-averaged Wind Profiles Within and Above an Urban Canopy. Boundary-Layer Meteorology, 2008, 127, 131-151.	1.2	76
7	Fractal complexity in spontaneous EEG metastable-state transitions: new vistas on integrated neural dynamics. Frontiers in Physiology, 2010, 1, 128.	1.3	66
8	Fluorescence intermittency in blinking quantum dots: Renewal or slow modulation?. Journal of Chemical Physics, 2005, 123, 174704.	1.2	54
9	Fractional kinetics emerging from ergodicity breaking in random media. Physical Review E, 2016, 94, 052147.	0.8	47
10	Renewal, modulation, and superstatistics in times series. Physical Review E, 2006, 73, 046136.	0.8	41
11	Self-organized dynamical complexity in human wakefulness and sleep: Different critical brain-activity feedback for conscious and unconscious states. Physical Review E, 2015, 92, 032808.	0.8	40
12	Climate change assessment for Mediterranean agricultural areas by statistical downscaling. Natural Hazards and Earth System Sciences, 2010, 10, 1647-1661.	1.5	37
13	Langevin equation in complex media and anomalous diffusion. Journal of the Royal Society Interface, 2018, 15, 20180282.	1.5	31
14	A stochastic solution with Gaussian stationary increments of the symmetric space-time fractional diffusion equation. Fractional Calculus and Applied Analysis, 2016, 19, 408-440.	1.2	25
15	Complex intermittency blurred by noise: Theory and application to neural dynamics. Physical Review E, 2010, 82, 015103.	0.8	22
16	Periodic trend and fluctuations: The case of strong correlation. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 157-170.	1.2	21
17	Sleep unconsciousness and breakdown of serial critical intermittency: New vistas on the global workspace. Chaos, Solitons and Fractals, 2013, 55, 32-43.	2.5	20
18	A fluctuating environment as a source of periodic modulation. Chemical Physics Letters, 2007, 438, 336-340.	1.2	18

#	Article	IF	Citations
19	Aging and renewal events in sporadically modulated systems. Chaos, Solitons and Fractals, 2007, 34, 11-18.	2.5	16
20	Perturbation-induced emergence of Poisson-like behavior in non-Poisson systems. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01013.	0.9	14
21	Scaling laws of diffusion and time intermittency generated by coherent structures in atmospheric turbulence. Nonlinear Processes in Geophysics, 2012, 19, 113-126.	0.6	14
22	Finite-energy LÃ©vy-type motion through heterogeneous ensemble of Brownian particles. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 095601.	0.7	13
23	Diffusion Scaling in Event-Driven Random Walks: An Application to Turbulence. Reports on Mathematical Physics, 2012, 70, 205-220.	0.4	12
24	Centre-of-Mass Like Superposition of Ornsteinâ€“Uhlenbeck Processes: A Pathway to Non-Autonomous Stochastic Differential Equations and to Fractional Diffusion. Fractional Calculus and Applied Analysis, 2018, 21, 1420-1435.	1.2	12
25	Anomalous diffusion originated by two Markovian hopping-trap mechanisms. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 224012.	0.7	12
26	RENEWAL AGING IN NON-HOMOGENEOUS POISSON PROCESSES WITH PERIODIC RATE MODULATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2681-2691.	0.7	11
27	Superstatistics and renewal critical events. Open Physics, 2009, 7, .	0.8	11
28	A renewal model for the emergence of anomalous solute crowding in liposomes. BMC Systems Biology, 2015, 9, S7.	3.0	11
29	Scaling law of diffusivity generated by a noisy telegraph signal with fractal intermittency. Chaos, Solitons and Fractals, 2015, 81, 451-462.	2.5	8
30	Online Communication and Body Language. Frontiers in Behavioral Neuroscience, 2021, 15, 709365.	1.0	8
31	Noisy cooperative intermittent processes: From blinking quantum dots to human consciousness. Journal of Physics: Conference Series, 2011, 306, 012027.	0.3	7
32	Source identification by a statistical analysis of backward trajectories based on peak pollution events. International Journal of Environment and Pollution, 2014, 55, 94.	0.2	7
33	Intermittency-Driven Complexity in Signal Processing. , 2017, , 161-195.		5
34	Gaussian Processes in Complex Media: New Vistas on Anomalous Diffusion. Frontiers in Physics, 2019, 7, .	1.0	5
35	Numerical Determination of Personal Aerosol Sampler Aspiration Efficiency. Journal of Occupational and Environmental Hygiene, 2003, 18, 244-255.	0.5	4
36	Relations between Lagrangian models and synthetic random velocity fields. Physical Review E, 2004, 70, 046305.	0.8	4

#	Article	IF	Citations
37	Corrigendum to "Scaling laws of diffusion and time intermittency generated by coherent structures in atmospheric turbulence" published in Nonlin. Processes Geophys., 19, 113â€“126, 2012. Nonlinear Processes in Geophysics, 2012, 19, 685-685.	0.6	4
38	A fast model for pollutant dispersion at the neighbourhood scale. International Journal of Environment and Pollution, 2011, 47, 207.	0.2	3
39	Is temporal scaling at the basis of allometry?. Physics of Life Reviews, 2013, 10, 233-234.	1.5	3
40	Scaling laws of turbulence intermittency in the atmospheric boundary layer: the role of stability. Journal of Physics: Conference Series, 2015, 633, 012065.	0.3	0
41	A random field approach to the Lagrangian modeling of turbulent transport in vegetated canopies. Journal of Physics: Conference Series, 2015, 633, 012082.	0.3	0
42	A Hypothesis About Parallelism vs. Seriality in Dreams. Frontiers in Psychology, 2019, 10, 2299.	1.1	0