

Enrico Scalas

List of Publications by Year in descending order

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84
papers

4,652
citations

257429

24
h-index

102480

66
g-index

90
all docs

90
docs citations

90
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractional non-homogeneous Poisson and PÃly-Aeppli processes of order k and beyond. Communications in Statistics - Theory and Methods, 2023, 52, 2682-2701.	1.0	2
2	Bounds for mixing times for finite semi-Markov processes with heavy-tail jump distribution. Fractional Calculus and Applied Analysis, 2022, 25, 229-243.	2.2	2
3	Continuum and thermodynamic limits for a simple random-exchange model. Stochastic Processes and Their Applications, 2022, , .	0.9	2
4	An empirical data analysis of "price runs" in daily financial indices: Dynamically assessing market geometric distributional behavior. PLoS ONE, 2022, 17, e0270492.	2.5	0
5	Limitations of portfolio diversification through fat tails of the return Distributions: Some empirical evidence. North American Journal of Economics and Finance, 2021, 56, 101358.	3.5	4
6	A fractional generalization of the dirichlet distribution and related distributions. Fractional Calculus and Applied Analysis, 2021, 24, 112-136.	2.2	1
7	Limit theorems for prices of options written on semi-Markov processes. Theory of Probability and Mathematical Statistics, 2021, 105, 3-33.	0.5	3
8	Continuum and Thermodynamic Limits for a Wealth-Distribution Model. Evolutionary Economics and Social Complexity Science, 2020, , 79-99.	0.7	0
9	Limit theorems for the fractional nonhomogeneous Poisson process. Journal of Applied Probability, 2019, 56, 246-264.	0.7	7
10	Modeling non-stationarities in high-frequency financial time series. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 173-196.	2.6	13
11	Fat tails in financial return distributions revisited: Evidence from the Korean stock market. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 121055.	2.6	21
12	Computation of the stochastic basin of attraction by rigorous construction of a Lyapunov function. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 4247-4269.	0.9	3
13	Performance of information criteria for selection of Hawkes process models of financial data. Quantitative Finance, 2018, 18, 225-235.	1.7	15
14	The Mathematics of Human Contact: Developing a Model for Social Interaction in School Children. Acta Physica Polonica A, 2018, 133, 1421-1432.	0.5	2
15	Lyapunov function computation for autonomous linear stochastic differential equations using sum-of-squares programming. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 939-956.	0.9	6
16	Uncertainty Quantification for Fat-Tailed Probability Distributions in Aircraft Engine Simulations. Journal of Propulsion and Power, 2017, 33, 881-890.	2.2	5
17	Continuous-time statistics and generalized relaxation equations. European Physical Journal B, 2017, 90, 1.	1.5	0
18	Low-traffic limit and first-passage times for a simple model of the continuous double auction. Physica A: Statistical Mechanics and Its Applications, 2017, 485, 61-72.	2.6	5

#	ARTICLE	IF	CITATIONS
19	The fractional non-homogeneous Poisson process. <i>Statistics and Probability Letters</i> , 2017, 120, 147-156.	0.7	26
20	A generalization of the space-fractional Poisson process and its connection to some Lévy processes. <i>Electronic Communications in Probability</i> , 2016, 21, .	0.4	22
21	Random exchange models and the distribution of wealth. <i>European Physical Journal: Special Topics</i> , 2016, 225, 3293-3298.	2.6	0
22	Velocity and energy distributions in microcanonical ensembles of hard spheres. <i>Physical Review E</i> , 2015, 92, 022140.	2.1	11
23	Solvable non-Markovian dynamic network. <i>Physical Review E</i> , 2015, 92, 042801.	2.1	19
24	A spectral perspective on excess volatility. <i>Applied Economics Letters</i> , 2015, 22, 745-750.	1.8	1
25	Wealth distribution and the Lorenz curve: a finitary approach. <i>Journal of Economic Interaction and Coordination</i> , 2015, 10, 79-89.	0.7	4
26	Ergodic Transition in a Simple Model of the Continuous Double Auction. <i>PLoS ONE</i> , 2014, 9, e88095.	2.5	4
27	A functional limit theorem for stochastic integrals driven by a time-changed symmetric α -stable Lévy process. <i>Stochastic Processes and Their Applications</i> , 2014, 124, 385-410.	0.9	9
28	Random numbers from the tails of probability distributions using the transformation method. <i>Fractional Calculus and Applied Analysis</i> , 2013, 16, 332-353.	2.2	6
29	Statistical Analysis and Agent-Based Microstructure Modeling of High-Frequency Financial Trading. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2012, 6, 381-387.	10.8	19
30	On the convergence of quadratic variation for compound fractional Poisson processes. <i>Fractional Calculus and Applied Analysis</i> , 2012, 15, .	2.2	9
31	A stylized model for the continuous double auction. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2012, , 115-125.	0.3	1
32	Semi-Markov Graph Dynamics. <i>PLoS ONE</i> , 2011, 6, e23370.	2.5	12
33	Pion induced reactions on ^4He in the $\hat{\Gamma}$ resonance energy region. <i>Journal of Physics: Conference Series</i> , 2011, 312, 022014.	0.4	0
34	Fine structure of spectral properties for random correlation matrices: An application to financial markets. <i>Physical Review E</i> , 2011, 84, 016113.	2.1	25
35	Emerging properties of financial time series in the "Game of Life". <i>Physical Review E</i> , 2011, 84, 066104.	2.1	0
36	PION INDUCED REACTIONS ON ^4He IN THE $\hat{\Gamma}$ RESONANCE ENERGY REGION. <i>International Journal of Modern Physics A</i> , 2011, 26, 705-707.	1.5	1

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37	Full characterization of the fractional Poisson process. Europhysics Letters, 2011, 96, 20004.	2.0	50
38	A Class of CTRWs: Compound Fractional Poisson Processes. , 2011, , 353-374.		5
39	Simulation informatisÅ©e en humanitÅ©s et sciences sociales. Nouvelles Perspectives En Sciences Sociales, 2010, 5, 59-67.	0.1	0
40	Spectral densities of Wishart-LÅ©vy free stable random matrices. European Physical Journal B, 2010, 73, 13-22.	1.5	10
41	ItÅ© and Stratonovich integrals on compound renewal processes: the normal/Poisson case. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1583-1588.	3.3	6
42	TolstoyÅ©s dream and the quest for statistical equilibrium in economics and the social sciences. , 2010, , 115-133.		0
43	A Dynamic Probabilistic Version of the AokiÅ©Yoshikawa Sectoral Productivity Model. Economics, 2009, 3, .	0.6	4
44	The distribution of first-passage times and durations in FOREX and future markets. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2839-2853.	2.6	29
45	A random telegraph signal of Mittag-Leffler type. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3991-3999.	2.6	11
46	Stochastic calculus for uncoupled continuous-time random walks. Physical Review E, 2009, 79, 066102.	2.1	66
47	Fitting the empirical distribution of intertrade durations. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2025-2034.	2.6	64
48	Monte Carlo simulation of uncoupled continuous-time random walks yielding a stochastic solution of the space-time fractional diffusion equation. Physical Review E, 2008, 77, 021122.	2.1	150
49	Ehrenfest urn revisited: Playing the game on a realistic fluid model. Physical Review E, 2007, 76, 011104.	2.1	4
50	Mixtures of compound Poisson processes as models of tick-by-tick financial data. Chaos, Solitons and Fractals, 2007, 34, 33-40.	5.1	25
51	Activity spectrum from waiting-time distribution. Physica A: Statistical Mechanics and Its Applications, 2007, 383, 43-48.	2.6	11
52	The 2006 edition of the Econophysics Colloquium and the Bonzenfreies Colloquium. Physica A: Statistical Mechanics and Its Applications, 2007, 383, xi-xii.	2.6	0
53	The value of information in a multi-agent market model. European Physical Journal B, 2007, 55, 115-120.	1.5	17
54	Statistical equilibrium in simple exchange games II. The redistribution game. European Physical Journal B, 2007, 60, 241-246.	1.5	34

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55	Five Years of Continuous-time Random Walks in Econophysics. , 2006, , 3-16.		34
56	FRACTIONAL CALCULUS AND THE SCHRÖDINGER EQUATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 234-237.	0.4	3
57	Waiting times between orders and trades in double-auction markets. Physica A: Statistical Mechanics and Its Applications, 2006, 366, 463-471.	2.6	59
58	The application of continuous-time random walks in finance and economics. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 225-239.	2.6	228
59	Growth and allocation of resources in economics: The agent-based approach. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 86-90.	2.6	6
60	Coupled continuous time random walks in finance. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 114-118.	2.6	169
61	Statistical equilibrium in simple exchange games I. European Physical Journal B, 2006, 53, 267-272.	1.5	39
62	Poisson-process generalization for the trading waiting-time distribution in a double-auction mechanism. , 2005, 5848, 215.		2
63	Fraudulent Agents in an Artificial Financial Market. Lecture Notes in Economics and Mathematical Systems, 2005, , 317-326.	0.3	4
64	Uncoupled continuous-time random walks: Solution and limiting behavior of the master equation. Physical Review E, 2004, 69, 011107.	2.1	180
65	Anomalous waiting times in high-frequency financial data. Quantitative Finance, 2004, 4, 695-702.	1.7	75
66	A RENEWAL PROCESS OF MITTAG-LEFFLER TYPE. , 2004, , .		3
67	Transverse momentum distribution of J/ψ produced in PbPb and p-A interactions at the CERN SPS. Nuclear Physics A, 2003, 715, 675c-678c.	1.5	25
68	REVISITING THE DERIVATION OF THE FRACTIONAL DIFFUSION EQUATION. Fractals, 2003, 11, 281-289.	3.7	47
69	Waiting-times and returns in high-frequency financial data: an empirical study. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 749-755.	2.6	410
70	The dependence of the anomalous J/ψ suppression on the number of participant nucleons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 195-203.	4.1	42
71	Performances of zero degree calorimeters for the ALICE experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 456, 248-258.	1.6	9
72	Fractional Calculus and Continuous-Time Finance III : the Diffusion Limit. , 2001, , 171-180.		134

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73	Fractional calculus and continuous-time finance. Physica A: Statistical Mechanics and Its Applications, 2000, 284, 376-384.	2.6	679
74	Fractional calculus and continuous-time finance II: the waiting-time distribution. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 468-481.	2.6	450
75	Collective surface diffusion on a triangular lattice in presence of ordered phases. Surface Science, 1998, 402-404, 281-285.	1.9	14
76	Collective surface diffusion on triangular and square interacting lattice gases. Surface Science, 1998, 409, 117-129.	1.9	29
77	Head-group variations and monolayer structures of diol derivatives. , 1996, , 351-355.		3
78	Multi-site correlation functions in two-dimensional lattice gases. Physica A: Statistical Mechanics and Its Applications, 1996, 223, 149-166.	2.6	2
79	Lattice-gas model of diffusion of NH ₃ on Re(0001). Chemical Physics Letters, 1995, 236, 533-537.	2.6	13
80	Relating Lattice and Domain Structures of Monoglyceride Monolayers. The Journal of Physical Chemistry, 1995, 99, 8758-8762.	2.9	80
81	Projection-operator route to the generalized Darken equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 186, 415-418.	2.1	27
82	Erratum to "Collective diffusion in a lattice gas: application to O/W(110)" [Surface Science 307(1994) 565]. Surface Science, 1994, 318, 443.	1.9	0
83	Resolving power and information theory in signal recovery. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 991.	1.5	13
84	A Parsimonious Model for Intraday European Option Pricing. SSRN Electronic Journal, 0, , .	0.4	1