

Gianni Pagnini

List of Publications by Year in descending order

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66
papers

2,152
citations

304368

22
h-index

223531

46
g-index

68
all docs

68
docs citations

68
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete random walk models for space-time fractional diffusion. <i>Chemical Physics</i> , 2002, 284, 521-541.	0.9	236
2	Time-fractional Diffusion of Distributed Order. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 1267-1290.	1.5	170
3	https://doi.org/10.1016/j.cpc.2001.11.016 <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:struct-bib="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:struct-map="http://www.elsevier.com/xml/common/struct-map/dtd" xmlns:struct-toc="http://www.elsevier.com/xml/common/struct-toc/dtd" xmlns:struct-user="http://www.elsevier.com/xml/common/struct-user/dtd" xmlns:struct-xref="http://www.elsevier.com/xml/common/struct-xref/dtd" xmlns:struct-xsl="http://www.elsevier.com/xml/common/struct-xsl/dtd" xmlns:struct-xsl-ext="http://www.elsevier.com/xml/common/struct-xsl-ext/dtd" xmlns:struct-xsl-ext="http://www.elsevier.com/xml/common/struct-xsl-ext/dtd" xmlns:struct-xsl-ext="http://www.elsevier.com/xml/common/struct-xsl-ext/dtd"</small>	1.1	152
4	The Wright functions as solutions of the time-fractional diffusion equation. <i>Applied Mathematics and Computation</i> , 2003, 141, 51-62.	1.4	150
5	Some aspects of fractional diffusion equations of single and distributed order. <i>Applied Mathematics and Computation</i> , 2007, 187, 295-305.	1.4	139
6	Random diffusivity from stochastic equations: comparison of two models for Brownian yet non-Gaussian diffusion. <i>New Journal of Physics</i> , 2018, 20, 043044.	1.2	111
7	The role of the Fox-Wright functions in fractional sub-diffusion of distributed order. <i>Journal of Computational and Applied Mathematics</i> , 2007, 207, 245-257.	1.1	96
8	Erdős-Kober fractional diffusion. <i>Fractional Calculus and Applied Analysis</i> , 2012, 15, 117-127.	1.2	93
9	The -Wright Function in Time-Fractional Diffusion Processes: A Tutorial Survey. <i>International Journal of Differential Equations</i> , 2010, 2010, 1-29.	0.3	81
10	Fractional diffusion: probability distributions and random walk models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 305, 106-112.	1.2	79
11	Crossover from anomalous to normal diffusion: truncated power-law noise correlations and applications to dynamics in lipid bilayers. <i>New Journal of Physics</i> , 2018, 20, 103027.	1.2	79
12	Characterizations and simulations of a class of stochastic processes to model anomalous diffusion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 285003.	0.7	65
13	Fractional kinetics emerging from ergodicity breaking in random media. <i>Physical Review E</i> , 2016, 94, 052147.	0.8	47
14	Discretizations of the Spectral Fractional Laplacian on General Domains with Dirichlet, Neumann, and Robin Boundary Conditions. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1243-1272.	1.1	44
15	Fractional Brownian motion in a finite interval: correlations effect depletion or accretion zones of particles near boundaries. <i>New Journal of Physics</i> , 2019, 21, 022002.	1.2	43
16	Fractional relaxation with time-varying coefficient. <i>Fractional Calculus and Applied Analysis</i> , 2014, 17, 424-439.	1.2	41
17	The M-Wright function as a generalization of the Gaussian density for fractional diffusion processes. <i>Fractional Calculus and Applied Analysis</i> , 2013, 16, 436-453.	1.2	39
18	Salvatore Pincherle: the pioneer of the Mellin-Barnes integrals. <i>Journal of Computational and Applied Mathematics</i> , 2003, 153, 331-342.	1.1	35

#	ARTICLE	IF	CITATIONS
19	Short note on the emergence of fractional kinetics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 409, 29-34.	1.2	32
20	Langevin equation in complex media and anomalous diffusion. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180282.	1.5	31
21	A stochastic solution with Gaussian stationary increments of the symmetric space-time fractional diffusion equation. <i>Fractional Calculus and Applied Analysis</i> , 2016, 19, 408-440.	1.2	25
22	Generalized Cattaneo (telegrapher's) equations in modeling anomalous diffusion phenomena. <i>Physical Review E</i> , 2020, 102, 022128.	0.8	25
23	Evolution equations for the probabilistic generalization of the Voigt profile function. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 1590-1595.	1.1	21
24	Exact solutions of triple-order time-fractional differential equations for anomalous relaxation and diffusion I: The accelerating case. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 602-613.	1.2	21
25	Nonlinear time-fractional differential equations in combustion science. <i>Fractional Calculus and Applied Analysis</i> , 2011, 14, 80-93.	1.2	20
26	Turbulence and fire-spotting effects into wild-land fire simulators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 39, 300-320.	1.7	18
27	Local Analysis of Heterogeneous Intracellular Transport: Slow and Fast Moving Endosomes. <i>Entropy</i> , 2021, 23, 958.	1.1	18
28	Modelling wildland fire propagation by tracking random fronts. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2249-2263.	1.5	16
29	On the merits of sparse surrogates for global sensitivity analysis of multi-scale nonlinear problems: Application to turbulence and fire-spotting model in wildland fire simulators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 73, 120-145.	1.7	16
30	Front propagation in anomalous diffusive media governed by time-fractional diffusion. <i>Journal of Computational Physics</i> , 2015, 293, 427-441.	1.9	14
31	Two-particle anomalous diffusion: probability density functions and self-similar stochastic processes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120154.	1.6	13
32	RandomFront 2.3: a physical parameterisation of fire spotting for operational fire spread models – implementation in WRF-SFIRE and response analysis with LSFIRE+. <i>Geoscientific Model Development</i> , 2019, 12, 69-87.	1.3	13
33	Finite-energy Lévy-type motion through heterogeneous ensemble of Brownian particles. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 095601.	0.7	13
34	Sub-diffusion equations of fractional order and their fundamental solutions. , 2007, , 23-55.		13
35	Lagrangian Formulation of Turbulent Premixed Combustion. <i>Physical Review Letters</i> , 2011, 107, 044503.	2.9	12
36	Centre-of-Mass Like Superposition of Ornstein–Uhlenbeck Processes: A Pathway to Non-Autonomous Stochastic Differential Equations and to Fractional Diffusion. <i>Fractional Calculus and Applied Analysis</i> , 2018, 21, 1420-1435.	1.2	12

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37	SHould I Stay Or Should I Go? Zero-Size Jumps in Random Walks for LÃ©vy Flights. Fractional Calculus and Applied Analysis, 2021, 24, 137-167.	1.2	12
38	Anomalous diffusion originated by two Markovian hopping-trap mechanisms. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 224012.	0.7	12
39	Lagrangian stochastic models for turbulent relative dispersion based on particle pair rotation. Journal of Fluid Mechanics, 2008, 616, 357-395.	1.4	11
40	Generalized Fractional Master Equation for Self-Similar Stochastic Processes Modelling Anomalous Diffusion. International Journal of Stochastic Analysis, 2012, 2012, 1-14.	0.3	11
41	Mellin Convolution for Subordinated Stable Processes. Journal of Mathematical Sciences, 2006, 132, 637-642.	0.1	9
42	The evolution equation for the radius of a premixed flame ball in fractional diffusive media. European Physical Journal: Special Topics, 2011, 193, 105-117.	1.2	7
43	Historical notes on the M-Wright/Mainardi function. Communications in Applied and Industrial Mathematics, 2014, 6, .	0.6	6
44	Fire-spotting generated fires. Part II: The role of flame geometry and slope. Applied Mathematical Modelling, 2022, 104, 1-20.	2.2	6
45	Gaussian Processes in Complex Media: New Vistas on Anomalous Diffusion. Frontiers in Physics, 2019, 7, .	1.0	5
46	A generalized Stefan model accounting for system memory and non-locality. International Communications in Heat and Mass Transfer, 2020, 114, 104584.	2.9	5
47	FRACTIONAL RELAXATION AND TIME-FRACTIONAL DIFFUSION OF DISTRIBUTED ORDER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1-21.	0.4	4
48	Testing kernel density reconstruction for Lagrangian photochemical modelling. Atmospheric Environment, 2006, 40, 7770-7785.	1.9	4
49	Fire-spotting generated fires. Part I: The role of atmospheric stability. Applied Mathematical Modelling, 2020, 84, 590-609.	2.2	4
50	Influence of Eulerian and Lagrangian scales on the relative dispersion properties in Lagrangian stochastic models of turbulence. Physical Review E, 2004, 69, 037301.	0.8	3
51	The kernel method to compute the intensity of segregation for reactive pollutants: Mathematical formulation. Atmospheric Environment, 2009, 43, 3691-3698.	1.9	3
52	Lagrangian properties of turbulent diffusion with passive chemical reaction in the framework of the premixed combustion theory. Physics of Fluids, 2011, 23, 035101.	1.6	3
53	The Role of Salvatore Pincherle in the Development of Fractional Calculus. , 2012, , 373-381.		2
54	Modelling and simulation of wildland fire in the framework of the level set method. Ricerche Di Matematica, 2016, 65, 523-533.	0.6	2

#	ARTICLE	IF	CITATIONS
55	Fire Spotting Effects in Wildland Fire Propagation. SEMA SIMAI Springer Series, 2014, , 203-214.	0.4	2
56	SPACE-TIME FRACTIONAL DIFFUSION: EXACT SOLUTIONS AND PROBABILITY INTERPRETATION. , 2002, , .		2
57	Turbulence Scale Dependence of the Richardson Constant in Lagrangian Stochastic Models. Boundary-Layer Meteorology, 2006, 118, 55-68.	1.2	1
58	Self-similar stochastic models with stationary increments for symmetric space-time fractional diffusion. , 2014, , .		1
59	A short bio of Professor Francesco Mainardi. Communications in Applied and Industrial Mathematics, 2014, 6, .	0.6	1
60	Physical Parametrisation of Fire-Spotting for Operational Wildfire Simulators. SEMA SIMAI Springer Series, 2021, , 21-38.	0.4	1
61	PhyFire: An Online GIS-Integrated Wildfire Spread Simulation Tool Based on a Semiphysical Model. SEMA SIMAI Springer Series, 2021, , 1-20.	0.4	1
62	Corrigendum to "Modelling wildland fire propagation by tracking random fronts" published in Nat. Hazards Earth Syst. Sci., 14, 2249–2263, 2014. Natural Hazards and Earth System Sciences, 2014, 14, 2373-2373.	1.5	0
63	Restoring Property of the Michelson–Sivashinsky Equation. Combustion Science and Technology, 2019, 191, 1734-1741.	1.2	0
64	Fractional Diffusion and Medium Heterogeneity: The Case of the Continuous Time Random Walk. SEMA SIMAI Springer Series, 2021, , 275-286.	0.4	0
65	Lagrangian properties of diffusion in the theory of turbulent combustion. , 2009, , .		0
66	Subordination Formulae for Space-time Fractional Diffusion Processes via Mellin Convolution. International Journal of Mathematical Models and Methods in Applied Sciences, 2022, 16, 71-76.	0.1	0