# Gianni Pagnini

List of Publications by Year
in descending order



| 66 | 2,152 | 304368 | 223531 |
|---|---|---|---|
| papers | citations | 22 h-index | 46 g-index |

| 68 | 68 | 68 | 1188 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fire-spotting generated fires. Part II: The role of flame geometry and slope. Applied Mathematical Modelling, 2022, 104, 1-20. | 2.2 | 6 |
| 2 | 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 |
| 3 | Anomalous diffusion originated by two Markovian hopping-trap mechanisms. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 224012. | 0.7 | 12 |
| 4 | Fractional Diffusion and Medium Heterogeneity: The Case of the Continuous Time Random Walk. SEMA SIMAI Springer Series, 2021, , 275-286. | 0.4 | 0 |
| 5 | Local Analysis of Heterogeneous Intracellular Transport: Slow and Fast Moving Endosomes. Entropy, 2021, 23, 958. | 1.1 | 18 |
| 6 | 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 |
| 7 | Physical Parametrisation of Fire-Spotting for Operational Wildfire Simulators. SEMA SIMAI Springer Series, 2021, , 21-38. | 0.4 | 1 |
| 8 | PhyFire: An Online GIS-Integrated Wildfire Spread Simulation Tool Based on a Semiphysical Model. SEMA SIMAI Springer Series, 2021, , 1-20. | 0.4 | 1 |
| 9 | Fire-spotting generated fires. Part I: The role of atmospheric stability. Applied Mathematical Modelling, 2020, 84, 590-609. | 2.2 | 4 |
| 10 | Generalized Cattaneo (telegrapher's) equations in modeling anomalous diffusion phenomena. Physical Review E, 2020, 102, 022128. | 0.8 | 25 |
| 11 | A generalized Stefan model accounting for system memory and non-locality. International Communications in Heat and Mass Transfer, 2020, 114, 104584. | 2.9 | 5 |
| 12 | Gaussian Processes in Complex Media: New Vistas on Anomalous Diffusion. Frontiers in Physics, 2019, 7, . | 1.0 | 5 |
| 13 | Restoring Property of the Michelsonâ€“Sivashinsky Equation. Combustion Science and Technology, 2019, 191, 1734-1741. | 1.2 | 0 |
| 14 | RandomFront 2.3: a physical parameterisation of fire spotting for operational fire spread models â€“ implementation in WRF-SFIRE and response analysis with LSFire+. Geoscientific Model Development, 2019, 12, 69-87. | 1.3 | 13 |
| 15 | 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 |
| 16 | Fractional Brownian motion in a finite interval: correlations effect depletion or accretion zones of particles near boundaries. New Journal of Physics, 2019, 21, 022002. | 1.2 | 43 |
| 17 | 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. Communications in Nonlinear Science and Numerical Simulation, 2019, 73, 120-145. | 1.7 | 16 |
| 18 | Discretizations of the Spectral Fractional Laplacian on General Domains with Dirichlet, Neumann, and Robin Boundary Conditions. SIAM Journal on Numerical Analysis, 2018, 56, 1243-1272. | 1.1 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Random diffusivity from stochastic equations: comparison of two models for Brownian yet non-Gaussian diffusion. New Journal of Physics, 2018, 20, 043044. | 1.2 | 111 |
| 20 | 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 |
| 21 | Crossover from anomalous to normal diffusion: truncated power-law noise correlations and applications to dynamics in lipid bilayers. New Journal of Physics, 2018, 20, 103027. | 1.2 | 79 |
| 22 | Langevin equation in complex media and anomalous diffusion. Journal of the Royal Society Interface, 2018, 15, 20180282. | 1.5 | 31 |
| 23 | Fractional kinetics emerging from ergodicity breaking in random media. Physical Review E, 2016, 94, 052147. | 0.8 | 47 |
| 24 | 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 |
| 25 | Modelling and simulation of wildland fire in the framework of the level set method. Ricerche Di Matematica, 2016, 65, 523-533. | 0.6 | 2 |
| 26 | Turbulence and fire-spotting effects into wild-land fire simulators. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 300-320. | 1.7 | 18 |
| 27 | Front propagation in anomalous diffusive media governed by time-fractional diffusion. Journal of Computational Physics, 2015, 293, 427-441. | 1.9 | 14 |
| 28 | Corrigendum to "Modelling wildland fire propagation by tracking random fronts" published in Nat. Hazards Earth Syst. Sci., 14, 2249â€“2263, 2014. Natural Hazards and Earth System Sciences, 2014, 14, 2373-2373. | 1.5 | 0 |
| 29 | Modelling wildland fire propagation by tracking random fronts. Natural Hazards and Earth System Sciences, 2014, 14, 2249-2263. | 1.5 | 16 |
| 30 | Self-similar stochastic models with stationary increments for symmetric space-time fractional diffusion. , 2014, , . | | 1 |
| 31 | Fractional relaxation with time-varying coefficient. Fractional Calculus and Applied Analysis, 2014, 17, 424-439. | 1.2 | 41 |
| 32 | Short note on the emergence of fractional kinetics. Physica A: Statistical Mechanics and Its Applications, 2014, 409, 29-34. | 1.2 | 32 |
| 33 | Fire Spotting Effects in Wildland Fire Propagation. SEMA SIMAI Springer Series, 2014, , 203-214. | 0.4 | 2 |
| 34 | Historical notes on the M-Wright/Mainardi function. Communications in Applied and Industrial Mathematics, 2014, 6, . | 0.6 | 6 |
| 35 | A short bio of Professor Francesco Mainardi. Communications in Applied and Industrial Mathematics, 2014, 6, . | 0.6 | 1 |
| 36 | The M-Wright function as a generalization of the Gaussian density for fractional diffusion processes. Fractional Calculus and Applied Analysis, 2013, 16, 436-453. | 1.2 | 39 |

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|---|---|---|---|
| 37 | Two-particle anomalous diffusion: probability density functions and self-similar stochastic processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120154. | 1.6 | 13 |
| 38 | Generalized Fractional Master Equation for Self-Similar Stochastic Processes Modelling Anomalous Diffusion. International Journal of Stochastic Analysis, 2012, 2012, 1-14. | 0.3 | 11 |
| 39 | The Role of Salvatore Pincherle in the Development of Fractional Calculus. , 2012, , 373-381. | | 2 |
| 40 | ErdÃ©lyi-Kober fractional diffusion. Fractional Calculus and Applied Analysis, 2012, 15, 117-127. | 1.2 | 93 |
| 41 | Nonlinear time-fractional differential equations in combustion science. Fractional Calculus and Applied Analysis, 2011, 14, 80-93. | 1.2 | 20 |
| 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 | Exact solutions of triple-order time-fractional differential equations for anomalous relaxation and diffusion I: The accelerating case. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 602-613. | 1.2 | 21 |
| 44 | Lagrangian Formulation of Turbulent Premixed Combustion. Physical Review Letters, 2011, 107, 044503. | 2.9 | 12 |
| 45 | 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 |
| 46 | Evolution equations for the probabilistic generalization of the Voigt profile function. Journal of Computational and Applied Mathematics, 2010, 233, 1590-1595. | 1.1 | 21 |
| 47 | The -Wright Function in Time-Fractional Diffusion Processes: A Tutorial Survey. International Journal of Differential Equations, 2010, 2010, 1-29. | 0.3 | 81 |
| 48 | The kernel method to compute the intensity of segregation for reactive pollutants: Mathematical formulation. Atmospheric Environment, 2009, 43, 3691-3698. | 1.9 | 3 |
| 49 | Lagrangian properties of diffusion in the theory of turbulent combustion. , 2009, , . | | 0 |
| 50 | Time-fractional Diffusion of Distributed Order. JVC/Journal of Vibration and Control, 2008, 14, 1267-1290. | 1.5 | 170 |
| 51 | Characterizations and simulations of a class of stochastic processes to model anomalous diffusion. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 285003. | 0.7 | 65 |
| 52 | Lagrangian stochastic models for turbulent relative dispersion based on particle pair rotation. Journal of Fluid Mechanics, 2008, 616, 357-395. | 1.4 | 11 |
| 53 | The role of the Foxâ€“Wright functions in fractional sub-diffusion of distributed order. Journal of Computational and Applied Mathematics, 2007, 207, 245-257. | 1.1 | 96 |
| 54 | Some aspects of fractional diffusion equations of single and distributed order. Applied Mathematics and Computation, 2007, 187, 295-305. | 1.4 | 139 |

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| 55 | Sub-diffusion equations of fractional order and their fundamental solutions. , 2007, , 23-55. | | 13 |
| 56 | 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 |
| 57 | Mellin Convolution for Subordinated Stable Processes. Journal of Mathematical Sciences, 2006, 132, 637-642. | 0.1 | 9 |
| 58 | Turbulence Scale Dependence of the Richardson Constant in Lagrangian Stochastic Models. Boundary-Layer Meteorology, 2006, 118, 55-68. | 1.2 | 1 |
| 59 | Testing kernel density reconstruction for Lagrangian photochemical modelling. Atmospheric Environment, 2006, 40, 7770-7785. | 1.9 | 4 |
| 60 | Fox <mml:math altimg="si1.gif" overflow="scroll" 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:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x | 1.1 | 152 |
| 61 | 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 |
| 62 | Salvatore Pincherle: the pioneer of the Mellinâ€“Barnes integrals. Journal of Computational and Applied Mathematics, 2003, 153, 331-342. | 1.1 | 35 |
| 63 | The Wright functions as solutions of the time-fractional diffusion equation. Applied Mathematics and Computation, 2003, 141, 51-62. | 1.4 | 150 |
| 64 | Discrete random walk models for spaceâ€“time fractional diffusion. Chemical Physics, 2002, 284, 521-541. | 0.9 | 236 |
| 65 | Fractional diffusion: probability distributions and random walk models. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 106-112. | 1.2 | 79 |
| 66 | SPACE-TIME FRACTIONAL DIFFUSION: EXACT SOLUTIONS AND PROBABILITY INTERPRETATION. , 2002, , . | | 2 |