Giulio Cottone

List of Publications by Year
in descending order

19 papers	**257** citations	1163117 **8** h-index	1058476 **14** g-index
19 all docs	**19** docs citations	**19** times ranked	**175** citing authors

#	Article	IF	Citations
1	Elastic waves propagation in 1D fractional non-local continuum. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 42, 95-103.	2.7	63
2	A novel exact representation of stationary colored Gaussian processes (fractional differential) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.1	41
3	Fractional calculus approach to the statistical characterization of random variables and vectors. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 909-920.	2.6	38
4	On the use of fractional calculus for the probabilistic characterization of random variables. Probabilistic Engineering Mechanics, 2009, 24, 321-330.	2.7	36
5	A new representation of power spectral density and correlation function by means of fractional spectral moments. Probabilistic Engineering Mechanics, 2010, 25, 348-353.	2.7	15
6	Stochastic dynamics of nonlinear systems with a fractional power-law nonlinear term: The fractional calculus approach. Probabilistic Engineering Mechanics, 2011, 26, 101-108.	2.7	13
7	Fractional spectral moments for digital simulation of multivariate wind velocity fields. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 741-747.	3.9	12
8	Incipient damage identification through characteristics of the analytical signal response. Structural Control and Health Monitoring, 2008, 15, 1122-1142.	4.0	10
9	α-stable distributions for better performance of ACO in detecting damage on not well spaced frequency systems. Probabilistic Engineering Mechanics, 2014, 35, 29-36.	2.7	8
10	Path integral solution by fractional calculus. Journal of Physics: Conference Series, 2008, 96, 012007.	0.4	6
11	Statistics of nonlinear stochastic dynamical systems under Lévy noises by a convolution quadrature approach. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 185001.	2.1	5
12	Ship Roll Motion under Stochastic Agencies Using Path Integral Method. Lecture Notes in Applied and Computational Mechanics, 2009, , 29-40.	2.2	4
13	Treatment of arbitrarily autocorrelated load functions in the scope of parameter identification. Computers and Structures, 2013, 126, 29-40.	4.4	3
14	Stochastic ship roll motion via path integral method. International Journal of Naval Architecture and Ocean Engineering, 2010, 2, 119-126.	2.3	3
15	A microplane model for plane-stress masonry structures. , 2003, , 115-117.		0
16	Fractional Derivatives in Interval Analysis. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	1.1	0
17	Statistical Methods for Parameter Identification of Temperature Dependent Viscoelastic Models. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800372.	0.2	0
18	Representation of Stationary Multivariate Gaussian Processes Fractional Differential Approach. , 2011, , .		0

#	Article	IF	Citations
19	Nonlinear SDE Excited by External Lévy White Noise Processes. , 2011, , .		0