

# Alessandro Taloni

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,032  
citations

516710

16  
h-index

414414

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1023  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning classifier to identify clinical and radiological features relevant to disability progression in multiple sclerosis. <i>Journal of Neurology</i> , 2021, 268, 4834-4845.	3.6	16
2	Extreme value theory and the St. Petersburg paradox in the failure statistics of wires. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 053401.	2.3	0
3	Local Analysis of Heterogeneous Intracellular Transport: Slow and Fast Moving Endosomes. <i>Entropy</i> , 2021, 23, 958.	2.2	18
4	Nanoconfinement-Induced DNA Reptating Motion and Analogy to Fluctuating Interfaces. <i>Macromolecules</i> , 2020, 53, 1001-1013.	4.8	3
5	Protein-driven lipid domain nucleation in biological membranes. <i>Physical Review E</i> , 2019, 100, 042410.	2.1	8
6	Cell Migration in Microfluidic Devices: Invadosomes Formation in Confined Environments. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1146, 79-103.	1.6	3
7	Size effects on the fracture of microscale and nanoscale materials. <i>Nature Reviews Materials</i> , 2018, 3, 211-224.	48.7	72
8	Single file dynamics in soft materials. <i>Soft Matter</i> , 2017, 13, 1096-1106.	2.7	37
9	Theory connecting nonlocal sediment transport, earth surface roughness, and the Sadler effect. <i>Geophysical Research Letters</i> , 2017, 44, 2281-2289.	4.0	14
10	Probing spermiogenesis: a digital strategy for mouse acrosome classification. <i>Scientific Reports</i> , 2017, 7, 3748.	3.3	2
11	Atomic-Scale Front Propagation at the Onset of Frictional Sliding. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5438-5443.	4.6	4
12	From the Underdamped Generalized Elastic Model to the Single Particle Langevin Description. <i>Mathematics</i> , 2017, 5, 3.	2.2	0
13	Kubo Fluctuation Relations in the Generalized Elastic Model. <i>Advances in Mathematical Physics</i> , 2016, 2016, 1-16.	0.8	2
14	Fluctuations in Protein Aggregation: Design of Preclinical Screening for Early Diagnosis of Neurodegenerative Disease. <i>Physical Review Applied</i> , 2016, 6, .	3.8	0
15	Collisional statistics and dynamics of two-dimensional hard-disk systems: From fluid to solid. <i>Physical Review E</i> , 2015, 92, 022131.	2.1	2
16	Scalar model for frictional precursors dynamics. <i>Scientific Reports</i> , 2015, 5, 8086.	3.3	14
17	Volume Changes During Active Shape Fluctuations in Cells. <i>Physical Review Letters</i> , 2015, 114, 208101.	7.8	34
18	Fracture Size Effects in Nanoscale Materials: The Case of Graphene. <i>Physical Review Applied</i> , 2015, 4, .	3.8	11

#	ARTICLE	IF	CITATIONS
19	The role of pressure in cancer growth. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	186
20	Mechanical Properties of Growing Melanocytic Nevi and the Progression to Melanoma. <i>PLoS ONE</i> , 2014, 9, e94229.	2.5	22
21	Interacting Single-File System: Fractional Langevin Formulation Versus Diffusion-Noise Approach. <i>Biophysical Reviews and Letters</i> , 2014, 09, 381-396.	0.8	13
22	Abstract 364: Mechanical properties of growing melanocytic nevi and the progression to melanoma. , 2014, , .		0
23	Scaling Theory of Stretched Polymers in Nanoslits. <i>Macromolecules</i> , 2013, 46, 7989-8002.	4.8	15
24	Generalized Elastic Model: Fractional Langevin Description, Fluctuation Relation and Linear Response. <i>Mathematical Modelling of Natural Phenomena</i> , 2013, 8, 127-143.	2.4	12
25	Generalized elastic model: Thermal vs. non-thermal initial conditions $\hat{=}$ Universal scaling, roughening, ageing and ergodicity. <i>Europhysics Letters</i> , 2012, 97, 30001.	2.0	18
26	Stationary Growth and Unique Invariant Harmonic Measure of Cylindrical Diffusion Limited Aggregation. <i>Physical Review Letters</i> , 2012, 109, 065501.	7.8	1
27	Entropy-Driven Single Molecule Tug-of-War of DNA at Micro $\hat{=}$ Nanofluidic Interfaces. <i>Nano Letters</i> , 2012, 12, 1597-1602.	9.1	60
28	Unusual response to a localized perturbation in a generalized elastic model. <i>Physical Review E</i> , 2011, 84, 021101.	2.1	15
29	Foundation of fractional Langevin equation: Harmonization of a many-body problem. <i>Physical Review E</i> , 2010, 81, 051118.	2.1	120
30	Generalized Elastic Model Yields a Fractional Langevin Equation Description. <i>Physical Review Letters</i> , 2010, 104, 160602.	7.8	67
31	Correlations in a generalized elastic model: Fractional Langevin equation approach. <i>Physical Review E</i> , 2010, 82, 061104.	2.1	21
32	Langevin formulation for single-file diffusion. <i>Physical Review E</i> , 2008, 78, 051116.	2.1	59
33	On single-file and less dense processes. <i>Europhysics Letters</i> , 2008, 83, 20004.	2.0	31
34	Subdiffusion and Long-Time Anticorrelations in a Stochastic Single File. <i>Physical Review Letters</i> , 2006, 97, 106101.	7.8	44
35	Diffusion of interacting Brownian particles: Jamming and anomalous diffusion. <i>Physical Review E</i> , 2006, 74, 021119.	2.1	29
36	Single-File Diffusion on a Periodic Substrate. <i>Physical Review Letters</i> , 2006, 96, 020601.	7.8	72

#	ARTICLE	IF	CITATIONS
37	Conformal approach to cylindrical DLA. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P09004-P09004.	2.3	7